



**Cleanup Action Report  
Gilman Square  
615 NW Gilman Blvd  
Issaquah, WA 98027**

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August 16, 2017

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August 16, 2017  
G-Logics Project 01-0868-J

Mr. Dan Shieder  
LMC Gilman Square, LLC  
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Seattle, WA 98101

**Subject: Cleanup Action Report  
Gilman Square  
615 NW Gilman Blvd  
Issaquah, WA 98027**

Dear Mr. Shieder:

G-Logics is pleased to present this Cleanup Action Report for remedial work performed at the above-referenced Gilman Square Property (the “Property”). This work addressed soil and groundwater that contained chlorinated-solvent contaminants (originating from a former dry cleaner). This work also addressed petroleum-contaminated soil associated with a former gas and service station. This Cleanup Action Report will be submitted to the Washington State Department of Ecology (Ecology) with a request for a No Further Action determination for the Property and Site.

Should you require additional information or have any questions, please contact us at your convenience. Thank you again for this opportunity to be of service.

Sincerely,  
**G-Logics, Inc.**

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Principal

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Appendix C:	Army Corps of Engineers, Nationwide Permit 14
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Appendix I: G-Logics Workplan for Enhanced-Anaerobic Bioremediation

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Appendix K: Analytical Laboratory Reports and Chain-of-Custody Documentation, UST Area

## **ATTACHMENTS**

Attachment A: Permission and Conditions for Use and Copying

## **1.0 EXECUTIVE SUMMARY**

This Cleanup Action Report (Report) discusses the remedial actions that have been performed at the Gilman Square Property and Site (Figure 1). This remedial work was conducted for LMC Gilman Square, LLC (LMC) in conjunction with Property redevelopment activities. The Property/Site was accepted into the Voluntary Cleanup Program (VCP) on January 24, 2014. Subsurface explorations completed at the Site prior to redevelopment identified chlorinated-solvent contaminants in the soil and perched groundwater. These contaminants were associated with a former dry-cleaner business located in the former Gilman Square Shopping Center building. In addition, a gas and service station formerly was located on the Property. Five underground-storage tanks (USTs) associated with the gas station were discovered and removed during redevelopment activities.

Based on the Property redevelopment and construction schedule, soil excavation/off-site recycling/disposal was identified as an appropriate cleanup method for removing the chlorinated-solvent and petroleum-contaminated soils. The remedial-excavations were conducted in the fall of 2014 (dry-cleaner area) and the summer of 2015 (USTs). In addition, dewatering and enhanced-anaerobic bioremediation (EAB) remedial methods were implemented in 2015 and 2016 in the dry-cleaner area to manage the residual chlorinated-solvent contaminants found in the perched groundwater. Petroleum contaminants above MTCA Method A cleanup levels were not discovered in the groundwater at the Property/Site.

After remedial activities were completed at the Site, G-Logics conducted groundwater monitoring in the dry-cleaner area to assess contaminant concentrations and groundwater conditions. Chlorinated-solvent contaminants were not detected above MTCA Method A cleanup levels in four consecutive groundwater-sampling events conducted in 2016 and 2017. These results indicate that contaminants have been successfully degraded to concentrations below cleanup levels across the Site.

The remedial work at the Property was conducted in accordance with Washington's Model Toxics Control Act (MTCA) regulations. With the information compiled in this report, G-Logics is requesting a No Further Action (NFA) Determination for the Property and Site.

## 2.0 PREVIOUS SITE EXPLORATIONS, INTERIM ACTIONS, AND DOCUMENTS

G-Logics previously has prepared several environmental reports that cover the Remedial Investigation for the Site. Information gathered during the Site investigations were summarized in the *Cleanup Action and Contaminated Media Management Plan* (dated April 21, 2014) prepared for the Site. Based on the previous explorations, chlorinated-solvents were identified as the contaminants of concern (COC) near the former dry cleaner in the western portion of the Property. In addition, USTs associated with a former gas and service station were identified in the central portion of the Property. The environmental-exploration documents, listed below, summarize the Site exploration activities (all reports are included in Appendix A on the attached CD).

- *Phase I Environmental Site Assessment*, prepared by G-Logics, Inc., June 18, 2013.
- *Phase II Environmental Site Assessment*, prepared by G-Logics, Inc., October 25, 2013.
- *Additional Site Exploration, Former Dry cleaner Area*, prepared by G-Logics, Inc., January 6, 2014.
- *Acceptance of VCP Applications*, prepared by Ecology, January 24, 2014.
- *Additional Well Installation, January 2014*, prepared by G-Logics, Inc., February 11, 2014.
- *Ecology Opinion Letter, Re: Opinion on Environmental Assessment Reports*, prepared by Ecology, April 2, 2014.
- *Cleanup Action and Contaminated Media Management Plan*, prepared by G-Logics, Inc., April 21, 2014 (Revised May 2, 2014).
- *Additional Borings and Testpit Sampling*, prepared by G-Logics, Inc., April 28, 2014.
- *Groundwater Sampling Summary Memo*, prepared by G-Logics, Inc., July 3, 2014.
- *Ecology Opinion Letter (to G-Logics Contaminated Media Management Plan)*, prepared by Ecology, August 18, 2014.

## 2.1 Interim Cleanup Action Report

Based on the *Cleanup Action and Contaminated Media Management Plan* (CAP/CMMP) and our understanding of Site conditions, G-Logics conducted several remedial actions at the Site in 2014 and 2015. This work was intended to remove soil and perched groundwater contamination in the dry-cleaner and former service-station areas and is summarized in this report and the following document.

- *Interim Cleanup Action Report*, prepared by G-Logics, Inc., December 2, 2015.

## 3.0 PROPERTY AND SITE DESCRIPTION

Prior to redevelopment activities, the Property consisted of eight tax parcels located at the intersection of NW Gilman Boulevard and 7<sup>th</sup> Avenue NW, Issaquah, WA (tax-parcel numbers and addresses are shown on Figure 2). During the redevelopment process, the parcels were combined and reconfigured into three parcels (new parcel numbers shown on Figure 2a).

### 3.1 Site and Property Description

For the purposes of this document, the Site refers to the area where soil/groundwater was impacted with chlorinated solvents (originating from the former dry cleaner) and/or petroleum contaminants (five USTs associated with the former gas and service station). The Property refers to the individual parcels that collectively make up the redevelopment boundaries. Based on existing soil and groundwater data, the Site was contained within the Property boundaries.

Ecology has identified the Site, as described below:

**Site Name:** Gilman Square

**Site Address:** 675 NW Gilman Boulevard, Issaquah, WA 98027 (address of the former dry cleaner)

**Facility/Site No.:** 15541

**CS ID:** 12286

**VCP Project No.:** NW2823

### **3.2 Area Description**

The Site and adjacent areas are located along Gilman Blvd, west of Historic Downtown Issaquah, and are primarily a commercial-use area. Residential and recreational properties also are located within several blocks of the Property.

### **3.3 Property History and Current Use**

Prior to construction of the Gilman Square Shopping Center in approximately 1961, the Property was farmland (pasture land). Since that time, two of the previous parcels on the Property were occupied by the Gilman Square Shopping Center building. This building provided retail and restaurant spaces. North of the shopping-center building was a large parking lot. The other parcels on the Property were undeveloped prior to redevelopment. A gas and service station was located on the 615 NW Gilman Blvd parcel in the 1960s and 1970s. The service station was demolished between 1977 and 1985 (based on aerial photography) and replaced with a parking lot. The neighboring properties located at 555 and 607 NW Gilman Blvd currently consist of a fast-food restaurant and an auto-supply store, respectively.

### **3.4 Contaminant Source and History of Release**

Below is a short description of the former dry cleaner and service-station source areas.

#### **3.4.1 Dry Cleaner**

Chlorinated-solvent contaminants that were identified on the Site are understood to originate from a dry-cleaner business formerly located at 675 NW Gilman Blvd. The dry cleaner formerly was located within the Issaquah Shopping Center building that existed on the Property until the fall of 2014 (demolished during redevelopment activities).

The dry cleaner operated from the 1960s to 1970s. The direct source of contamination is unclear. Contaminants were predominantly found near the back of the dry cleaner, where cleaning equipment and related machinery were located. This equipment, or spills in this area, could have contributed to the discovered contamination. Please refer to Section 6.0 for details regarding the remediation of the former dry-cleaner area.

### **3.4.2 Gas and Service Station**

Several borings were advanced in the area of the former service station during the initial Phase II Environmental Site Assessment (G-Logics report dated June 26, 2013). In addition, several existing groundwater-monitoring wells were discovered in this area and sampled during the Phase II work. Petroleum contaminants were not discovered in the soil or groundwater during the site explorations and subsequent groundwater sampling events.

During the Property redevelopment, a total of five USTs associated with the service station were found and removed. A small volume of petroleum-contaminated soil was discovered and properly disposed during the removal activities. Please refer to Section 7.0 for details regarding the remediation of the former service-station area.

### **3.5 Physiographic Setting**

The ground surface at the Site is generally level and formerly was approximately three feet below the elevation of 7<sup>th</sup> Ave NW and NW Gilman Blvd. According to the Site-topographic survey prepared by Encompass Engineering & Surveying, Site elevations generally ranged from 64 to 65 feet above mean sea level, with the southeast portion of the Site rising to approximately 66 feet. The Site (prior to redevelopment) sloped to the east towards Issaquah Creek, dropping to an approximate elevation of 58 feet. After redevelopment, the land surface remained generally level across the site.

### **3.6 Ecological Setting**

In our report dated April 21, 2014, G-Logics presented information regarding the Terrestrial Ecological Evaluation (TEE) for the Site. G-Logics identified that the Site qualifies for a primary exclusion and that further ecological evaluation was unnecessary. Specifically, the Site qualifies for an exclusion because there is less than 1.5 acres of contiguous undeveloped land within 500 feet of any part of the Site. Ecology agreed with this evaluation, as stated in their August 18, 2014 response letter.

### **3.7 Site Geology**

Exploration borings generally encountered loose, dry to moist, brown, silty sand with some gravel from ground surface to an approximate depth of four feet (possibly structural-fill material). At depths between approximately two and five feet, soils are soft to medium stiff, moist to wet, gray, silt and clay (overbank deposits). Several borings encountered a thin layer of peat/organic soil.

At depths between approximately five and fifteen feet, soils are soft to medium stiff, moist to wet, gray, slightly sandy silt and clay (lacustrine deposits). The silt/clay layer varied in thickness from 5 to 15 feet and contained thin fine-grained sand and peat/organic layers at varying depths. This layer was underlain by saturated, gray, fine to medium sands (alluvial deposits) to the explored depth of 30 feet. Based on groundwater measurements from well PG-1 and site observations during the redevelopment, the silt/clay unit is believed to act as an aquitard across much of the Site, with artesian conditions present in the underlying saturated sands.

### **3.8 Site Groundwater**

Perched groundwater was encountered in most borings during the Site explorations at depths between 4 and 7 feet below surface grade (approximate elevations between 58 and 61 feet above mean sea level). Groundwater elevations measured during the explorations are presented in Table 1. No odors, staining, or discoloration were observed in any of the collected groundwater samples. During Site explorations, groundwater-flow directions were found to be generally to the north, northeast, and northwest. A rose diagram showing historical groundwater-directions is included as Graph 1 (in the Tables section of this report).

#### ***3.8.1 Issaquah Groundwater Supply***

A majority of Issaquah's municipal water supply is sourced from four wells located along NW Gilman Boulevard. As indicated by Mr. Bret Heath from the City of Issaquah (conversation attached in Appendix B), two supply wells are located at 450 NW Gilman Boulevard: one well is 102 feet deep and one is 412 feet deep. These wells are located approximately 850 lineal feet northwest of the Site. Two additional wells are located near 240 NE Gilman Boulevard, both at depths of approximately 100 feet. These two wells are located approximately one mile to the southeast of the Site.

Based on the area geology, the shallow perched groundwater present at the Site is in a hydrologically different groundwater zone than the Issaquah water-supply wells. Additionally, the supply wells are very distant to the low-level concentrations of vinyl chloride previously present at the Site.

### **3.8.2 New Building Construction, Waterproofing**

Because of the shallow perched groundwater at the Site, the new residential buildings were constructed with a waterproof liner. This liner was designed to cover the bottom and sides of the building to prevent water from infiltrating into the subsurface parts of the structure (parking areas). For remedial purposes, the waterproof liner also served as a vapor barrier and mitigated former vapor-intrusion concerns prior to completion of remedial actions. A detailed description of the waterproofing system is included in Appendix A.

### **3.9 Site/Area Surface-Water and Stormwater Systems**

The stormwater system and several surface-water features were altered during the redevelopment process. Specifically, a channelized swale adjacent to 7th Ave NW was altered to run through storm-drainage piping. The Site contractor installed approximately 440 linear feet of pipe from the junction of 7<sup>th</sup> Ave NW and NW Locust St, to the junction of 7<sup>th</sup> Ave NW and NW Gilman Blvd. The Property owner was required to obtain an Army Corps of Engineers Nationwide Permit 14 (attached as Appendix C).

Due to the redevelopment of the entire Site, storm and surface water-collection systems were modified as shown in the projects civil-engineering drawings and report (prepared by CPH Consultants for the redevelopment project). A “flood-overflow swale” was installed through the Property and is used to collect and carry surface water offsite. The swale is located in the area of the former service station (and USTs) and was connected to the existing swale located along the south side of NW Gilman Boulevard.

### **3.10 Extent of Soil Contamination**

During the initial Site investigations, chlorinated solvents were detected in samples collected in the immediate vicinity of the former dry cleaner. Tetrachloroethylene (PCE) was detected above the MTCA Method A Cleanup Level in borings GL-B-7 and GL-B-10 (boring locations shown on Figure 3) The extent of soil contamination was bound by

subsequent subsurface investigations conducted at the Property (extent of contamination shown on Figure 4). Chlorinated-solvent contaminated soil appeared to be isolated within several feet (laterally) of the footprint of the former dry cleaner. Cross-section lines and cross sections showing the interpreted vertical and lateral extent of soil contamination previously present in the area of the former dry cleaner are shown on Figures 4, 5, and 6.

Petroleum contaminants were discovered in the soil during the UST-removal work. During the excavation of the USTs and associated contaminated soil, the vertical and lateral extents of soil contamination were found to be within the Property boundary and within close proximity to the tanks. Soil analytical results from the site investigations are summarized in Table 2.

### **3.11 Extent of Groundwater Contamination**

During the initial Phase II work, vinyl chloride was detected in groundwater samples collected from well GL-MW-4 and in grab-groundwater samples from borings GL-B-11 and GL-B-16 (located near the former dry cleaner) at concentrations above the MTCA Method A Cleanup Level of 0.200 ug/L. Other chlorinated solvent compounds (e.g., PCE) were either not detected, or not detected above Method A Cleanup Levels. The lateral extent of vinyl chloride-contaminated groundwater present during the remedial investigations is shown on Figure 4. The cross sections on Figures 5 and 6 also show the interpreted vertical and lateral extent of groundwater contamination previously present and associated with the former dry cleaner.

During the initial Phase II work in 2013 and 2014, an anomalous detection of vinyl chloride also was detected in groundwater samples collected from well GL-MW-6 at concentrations above the MTCA Method A Cleanup Level. This well was located approximately 340 feet north of the former dry cleaner. Groundwater samples from surrounding borings and wells did not indicate the presence of vinyl chloride in this area (to the north of the dry cleaner). During three subsequent rounds of sampling well GL-MW-6 (sampled in April, June, and September, 2014), chlorinated solvents, including vinyl chloride, were not detected in the collected groundwater samples.

Based on well locations and sampling results, chlorinated-solvent contaminants in the groundwater have not migrated off the Property. Petroleum contaminants were not found in the groundwater above MTCA Method A cleanup levels in the area of the former service station. Groundwater analytical results from the site investigations are summarized in Table 3.

## **4.0 REGULATORY BACKGROUND**

To address the identified contaminated soil and groundwater, LMC conducted a Voluntary/Independent Cleanup Action under MTCA. The MTCA regulations are codified in the Washington Administrative Code (WAC) as chapter 173-340. As an Independent Cleanup Action, this work was performed without Washington Department of Ecology (Ecology) direct assistance or approval. Additionally, this work was not performed under an order or decree.

Described below is the regulatory background established in our *Cleanup Action and Contaminated Media Management Plan (CAP/CMMP)* and confirmed with Ecology in their opinion letter dated August 18, 2014 (attached in Appendix A).

### **4.1 Site Characterization and Cleanup Action Plan**

In their April 2 and August 18, 2014 opinion letters, Ecology accepted the Site RI/FS and Cleanup Action Plan presented by G-Logics as sufficient for Site cleanup. Specifically, the alternative chosen for the Site would remediate contaminated soil and groundwater and was anticipated to likely achieve the established MTCA Method A cleanup levels.

### **4.2 Soil Cleanup Levels and Points of Compliance**

To identify the limits of the required remedial excavation in the former dry-cleaner area, G-Logics used Ecology's published MTCA soil cleanup levels. Specifically, analytical results for chlorinated solvents and petroleum contaminants were compared to the identified MTCA Method A Cleanup Levels for the unrestricted land use. In addition, the standard point of compliance (soil to a depth of 15 feet) was used for soil throughout the Site.

### **4.3 Groundwater Cleanup Levels and Points of Compliance**

Analytical results for chlorinated solvents and petroleum contaminants in the groundwater were compared to the identified MTCA Method A Cleanup Levels. In addition, the standard point of compliance (throughout the Site from the uppermost level of the saturated zone extending vertically to the lowest depth which could potentially be affected) was used for groundwater throughout the Site.

### **4.4 Terrestrial Ecological Evaluation**

In their April 2, 2014 opinion letter, Ecology agreed that the Site qualifies for a Terrestrial Ecological Evaluation (TEE) exclusion. Specifically, there are less than 1.5 acres of contiguous undeveloped land within 500 feet of any part of the Site, therefore qualifying the Site for the initial TEE exclusion.

### **4.5 “Contained-Out” Determination for Soil Disposal**

In the CAP/CMMP, G-Logics presented the rationale required to request a “Contained-Out” determination for the disposal of chlorinated-solvent contaminated soil at the Site. In the letter dated May 30, 2014 (attached as Appendix D), Ecology concurred with our assessment and provided a Contained-Out determination letter for 600 tons of F002 (PCE) listed wastes to be excavated from the vicinity of the former dry cleaner. Ecology did not require for these wastes to be disposed at a RCRA-permitted dangerous-waste treatment, storage, and disposal (TSD) facility, providing that all of their conditions were implemented, as outlined in their letter. Please see Section 6.2.2 of this report for additional information.

### **4.6 King County Wastewater Discharge Authorization**

Due to the presence of chlorinated-solvent contaminants in the groundwater, as well as the shallow depth to groundwater at the Site, the redevelopment required a King County Wastewater Discharge Authorization for construction dewatering. A Minor Discharge Authorization (Authorization No. 939-01) was granted by the King County Wastewater Treatment Division, Industrial Waste Program (KCIW). The authorization was contingent on effluent limitations and other requirements and conditions as outlined in the KCIW letter dated June 16, 2014. The Minor Discharge Authorization for this project is attached as Appendix E.

#### 4.7 Army Corps of Engineers Stream Infill Permit

Please refer to Section 3.9 for details regarding the Army Corps of Engineers Permit.

### 5.0 PERFORMED REMEDIAL ACTIVITIES

The performed cleanup actions and compliance-monitoring work was conducted in accordance with Washington's MTCA regulations. The cleanup and monitoring work was performed in accordance with G-Logics CAP/CMMP, subsequent workplans and authorizations, and our understanding of Site conditions. The project included the following activities to address the identified impacted and contaminated soil and groundwater (remediated as part of the planned Property redevelopment).

1. Abandoned the groundwater-monitoring wells prior to start of redevelopment activities. These wells were located within redevelopment and remedial excavation boundaries and are identified on Figure 3.
2. Assisted the Contractor with the segregation of clean soil and soil containing chlorinated-solvent (dry-cleaner area) and petroleum (service-station area) contaminants.
3. Documented the removal of the USTs and other service-station features (i.e., fuel lines, piping) that were discovered during UST excavation near the former service station.
4. Collected and analyzed samples of excavated soils for disposal-documentation purposes.
5. Collected and analyzed samples of excavation water for discharge-documentation purposes.
6. Collected and analyzed confirmation samples from remaining in-place soils and groundwater to identify concentrations, if any, of residual contaminants.
7. Utilized in-situ bioremediation methods in order to biologically degrade residual chlorinated-solvent contaminants in the groundwater near the former dry cleaner.
8. Installed new groundwater-monitoring wells once building construction began. These wells were installed in the vicinity of the former dry cleaner and were used to monitor groundwater conditions after remedial actions were concluded.

In addition to the documents listed in Section 2.0, the following additional documents related to the remedial activities and the post-remedial groundwater-monitoring conducted at the Site are listed below (also included in Appendix A on the attached CD).

- *Interim Cleanup Action Report*, prepared by G-Logics, Inc., December 2, 2015.
- *Change Order #5, Additional Authorization for Enhanced-Anaerobic Bioremediation*, prepared by G-Logics, Inc., August 25, 2015 (included as Appendix I).
- *Underground Injection Control (UIC) Well Registration Form for Voluntary or Independent Cleanup Sites Applications*, prepared by G-Logics, Inc., November 5, 2015.
- *Summary Memo, Fall 2016 Groundwater Sampling Results*, prepared by G-Logics, Inc., November 10, 2016.
- *Summary Memo, January 2017 Second Quarter Groundwater Sampling Results*, prepared by G-Logics, Inc., February 7, 2017.
- *Summary Memo, April 2017 Third Quarter Groundwater Sampling Results*, prepared by G-Logics, Inc., May 16, 2017.
- *Summary Memo, July 2017 Fourth Quarter Groundwater Sampling Results*, prepared by G-Logics, Inc., August 3, 2017.

The approximate remedial excavation locations in the former dry-cleaner and service-station areas are shown on Figure 7. The following Sections 6.0 and 7.0 describe the remedial activities performed during Property redevelopment in the former dry-cleaner area and the former service-station area.

## **6.0 FORMER DRY CLEANER REMEDIAL ACTIONS**

The remedial actions performed in the former dry-cleaner area are described below.

### **6.1 Well Decommissioning**

Prior to redevelopment activities, groundwater-monitoring wells GL-MW-1 through GL-MW-10, GS-MW-1, and GS-MW-2 were abandoned in accordance with Ecology's Minimum Standards for Construction and Maintenance of Wells (WAC Chapter 173-160). The Notices of Intent and Decommissioning Well Reports that were provided to Ecology are attached as Appendix F.

## **6.2 Remedial Excavation Soil Sampling**

Contaminated soils in the vicinity of the former dry cleaner were removed by excavation in September and October, 2014. A G-Logics geologist was present during the soil removal and performed the post-excavation soil sampling. The geologist noted the subsurface materials encountered in the excavation. In addition, a photoionization detector (PID) was used during the soil excavation to screen for Volatile Organic Compounds (VOCs). Results were measured in parts per million by volume (ppmv) and documented in the field notes. PID readings were used as a guide for determining the lateral extent and depth of the remedial excavation.

A mobile-analytical laboratory (Libby Environmental) also was used to analyze samples during the remedial excavation. This approach allowed us to provide real-time data during the Site remediation, allowing us to modify the depth and extent of the excavation when unexpected conditions were discovered (e.g., deeper than expected contamination). This approach also provided additional data necessary to better understand the nature, extent, and origin of the contamination in the soil and groundwater.

Performance and confirmation soil samples were collected from the excavation bottom and sidewalls to document the successful removal of chlorinated-solvent contaminated soil. Samples were analyzed for the presence of chlorinated solvents by EPA Method 8260. Collected soil samples were placed in laboratory supplied glass containers and given directly to the analyst. Sample labels were fixed to all sample jars and included the following information: sample number, owner name, date and time of collection, and the sampler's initials. Appropriate chain-of-custody records were completed.

### ***6.2.1 Confirmation Soil Sample Analytical Results***

Based on analytical results from the previously conducted Site explorations, the top 5 feet of PCE-contaminated soil in the western portion of the former dry cleaner were removed and disposed off-site at a Rabanco disposal facility (see Section 6.2.2 for a soil-disposal summary). Once soil in the targeted area was removed, performance samples were field screened using a PID and analyzed by the mobile-analytical laboratory. Two soil samples collected on the west sidewall of the excavation (WSW-2-4' and WSW-4-5') contained concentrations of PCE slightly above the MTCA Method A cleanup level of 0.05 mg/kg. Because of this, the excavation extended to the west by approximately 10 feet. Additional west sidewall and bottom samples then were collected to document the successful removal of the PCE-contaminated soil.

Except for the two west-sidewall samples, none of the remaining confirmation sidewall and bottom samples (collected from the remedial excavation) contained detectable concentrations of chlorinated solvents, including PCE and associated degradation products. Sample locations, depths, and analytical results are summarized on Table 4 and presented on Figure 8. Cross sections through the dry-cleaner excavation are included as Figures 8a, 8b, and 8c. The laboratory reports and chain-of-custody documentation for samples collected in the dry-cleaner area are presented in Appendix G.

### **6.2.2 Soil Disposal**

Approximately 460 tons of suspected and confirmed chlorinated-solvent contaminated soil was removed from the immediate area surrounding the former dry cleaner. This soil was loaded directly into “lined” rail containers, covered, and transported off-site for disposal as Contained Out waste at Rabanco’s Roosevelt Regional disposal facility. As requested in their May 30, 2014 letter, truck-disposal receipts specifying the date and tonnage were provided to Ecology. Copies of the truck-weight tickets for the Contained Out soil disposal are included with the Ecology “Contained-Out” letter in Appendix D.

### **6.2.3 Excavation Dewatering, Water Sampling, and Analytical Results**

The excavation remained open for several weeks with groundwater collecting into the bottom of the excavation. This water was subsequently pumped into on-site Baker Tanks. Water samples were collected from the Baker Tank and analyzed per the KCIW Minor Discharge Authorization (Permit No. 939-01) prior to disposing the water into the sanitary-sewer system. Water was pumped from the open excavation and into the Baker Tanks for several weeks in September and October. Water samples were collected from the Baker Tank prior to discharging to the sanitary-sewer system. VOCs were not detected in any of the analyzed Baker-Tank samples during the remedial activities. Analytical results are summarized in Table 5. The excavation was backfilled once construction activities required that the area be prepared for geotechnical preloading.

## **6.3 Post-Excavation, Remedial-Dewatering System Installation**

To further remove and mitigate lateral migration of residual vinyl chloride contaminants in the groundwater, a remedial-dewatering system was installed at the Property in November, 2014 (Figure 9). The system consists of 4-inch perforated PVC pipes connected to a 24-inch riser. To remove potential residual contaminants, groundwater

was pumped from the riser and into the on-site Baker Tanks. Groundwater was removed in this manner between November 2014 and March 2015 while the site was being prepared for building construction.

To install the remedial-dewatering system, the area just north of the former dry cleaner was over excavated to a depth of approximately 8 to 9 feet, corresponding to an elevation of 56 feet above mean sea level (MSL). A schematic of the dewatering system is shown on Figure 10. Because of the proximity to the former dry cleaner and the potential presence of chlorinated-solvent contaminants, a mobile-analytical laboratory (Libby Environmental) was on-site during the dewatering-system excavation to analyze soil samples. Soil-sampling results were used to determine the disposal method for excavated soils.

Performance and confirmation soil samples were collected throughout the excavation, including the bottom and sidewalls, to document the soil conditions. Samples were analyzed for the presence of chlorinated solvents by EPA Method 8260. Appropriate chain-of-custody records were completed. Analytical results are summarized below.

### ***6.3.1 Confirmation Soil Sample Analytical Results***

Soil samples throughout the dewatering-system excavation were field screened using a PID and analyzed by the mobile-analytical laboratory. None of the analyzed samples from the dewatering-system excavation contained detectable concentrations of chlorinated solvents. Sample locations, depths, and analytical results are summarized on Table 6 and Figure 9. The laboratory reports and chain-of-custody documentation also are presented in Appendix G.

### ***6.3.2 Water Sampling and Analytical Results***

To remove potential residual contaminants, groundwater was pumped from the dewatering system and into on-site Baker Tanks. Water samples were collected from the Baker Tanks prior to discharging to the sanitary-sewer system. VOCs were not detected in any of the analyzed Baker-Tank samples during the remedial-dewatering activities. Analytical results are summarized in Table 5.

#### **6.4 Post-Excavation, Groundwater-Monitoring Wells and Enhanced-Anaerobic Bioremediation**

After the remedial excavation was completed, three monitoring wells, GL-MW-11, GL-MW-12, and GL-MW-13, were installed in the area where groundwater had previously contained residual concentrations of vinyl chloride (well locations shown on Figure 11). Well GL-MW-13 was installed in a location upgradient from the former dry cleaner, with wells GL-MW-11 and GL-MW-12 installed in downgradient locations. These wells were installed to document groundwater conditions and monitor the attenuation of the low concentrations of chlorinated solvents.

During initial sampling events in June and September 2015, groundwater samples collected from wells GL-MW-11 and GL-MW-12 contained concentrations of vinyl chloride slightly above MTCA Method A Cleanup Levels. Samples collected from well GL-MW-13 during these two events did not contain detectable concentrations of the analyzed chlorinated solvents. Groundwater samples collected from all three wells in January 2016 did not contain concentrations of vinyl chloride or other chlorinated solvents above Method A Cleanup Levels.

Recent groundwater analytical results from wells GL-MW-11, GL-MW-12, and GL-MW-13 are summarized in Table 7 and presented on Figure 11a, with laboratory reports and chain-of-custody documentation presented in Appendix H. Interpreted groundwater-elevation contours are shown on Figure 12.

##### **6.4.1 Enhanced-Anaerobic Bioremediation**

At the request of LMC, G-Logics utilized in-situ, enhanced-anaerobic bioremediation (EAB) technology as a method to further reduce chlorinated-solvent concentrations in the groundwater. EAB technology was chosen based on the analytical results from the remedial investigation, as well as the analytical results and geochemical parameters collected from wells GL-MW-11, 12, and 13 in 2015 and 2016.

The subsurface microbial community uses organic carbon in the subsurface as an energy source. With favorable conditions during the metabolic process, microbes can degrade the chlorinated-solvent contaminants to more benign compounds such as ethylene. In the winter of 2016, G-Logics submitted the “Underground Injection Control (UIC) Well Registration Form” to Ecology (attached as Appendix I) for the injection of an EAB “amendment” solution (mix of nutrients and a carbon source). G-Logics received

Ecology's approval in January 2016 (also attached in Appendix I) and performed one injection in the former dry-cleaner area in the spring of 2016.

Preliminary groundwater sampling was conducted in June 2016 to document the aquifer conditions and assess the need for additional injections of the EAB amendment. Geochemical and water-quality parameter results collected during the June 2016 sampling event showed that anaerobic conditions had been successfully enhanced by the amendment. No additional injections were completed.

#### ***6.4.2 Groundwater Monitoring and Sampling Results***

G-Logics conducted quarterly groundwater sampling starting in the June 2015 (prior to the EAB treatment). Vinyl chloride was detected in wells GL-MW-11 and GL-MW-12 just above the Method A Cleanup Level (0.2 ug/L) during the June and September 2015 sampling events. Chlorinated solvents were not detected above Method A Cleanup Levels in any of the groundwater samples collected in January 2016 sampling event.

During the October 2016, and January 2017 quarterly-sampling events (post-EAB treatment), the groundwater samples collected from wells GL-MW-11 and GL-MW-13 required dilution due to "matrix interference" caused by the EAB amendment. The amendment interfered with the laboratory instruments (called matrix interference), therefore the samples required dilution prior to analysis. Because of this, the reporting limits and method-detection limits for vinyl chloride achievable by the laboratory in wells GL-MW-11 and GL-MW-13 were greater than the MTCA Method A cleanup level for vinyl chloride.

However, samples collected from GL-MW-12 were not affected by Matrix Interference and there were no detections of chlorinated solvents above Method A Cleanup Levels in these samples. In addition, based on the historical data, well GL-MW-12 is representative of site contaminants and concentrations and can be used to assess site-wide conditions.

Samples collected from all three wells during the April and July 2017 sampling events did not present matrix-interference problems; therefore standard reporting and detection limits were achievable. Accordingly, the April and July 2017 samples for all wells did not contain concentrations of chlorinated solvents above Method A Cleanup Levels.

With these results, vinyl chloride and other chlorinated-solvent contaminants were not detected above MTCA Method A cleanup levels during the last four groundwater-sampling events. In addition, none of the analyzed compounds were detected above the laboratory-reporting limits during the last two quarters of sampling. These results indicate that vinyl chloride has been successfully degraded to concentrations below cleanup levels across the Site.

A summary of the analytical results and geochemical parameters for wells GL-MW-11, GL-MW-12, and GL-MW-13 are presented in Table 7. Groundwater elevation data and well-construction information for these wells is summarized in Table 1. The analytical laboratory reports and chain-of custody documentation for the analyzed samples are attached as Appendix H.

## **6.5 Quality Assurance/ Quality Control**

Quality Assurance/Quality Control (QA/QC) for the presented scope of work included generally accepted procedures for sample collection, storage, tracking, and documentation. All sampling equipment was washed with a detergent wash and tap-water rinse before the collection of the samples. Appropriate chain-of-custody documentation was completed.

The laboratory validated the analytical procedures by processing laboratory-control samples and method-blank samples from each exploration. In addition, blind-duplicate samples were collected during the sampling events with results included in Table 7. Results were within acceptable limits for QA/QC standards. Laboratory QA/QC information is included (with the laboratory reports) in Appendices G and H.

## **7.0 UST REMOVAL, FORMER SERVICE-STATION AREA**

The project's excavation contractor Santa, Inc. (Santa) was on-site to perform the physical excavation of the five USTs discovered on the Property. Clearcreek Contractors, Inc. (Clearcreek) was retained by G-Logics to perform the UST-decommissioning work (as required by Ecology). A G-Logics UST Site Assessor conducted the required observations and soil/groundwater sampling (also as required by Ecology).

A G-Logics geologist was present during the soil removal and performed the post-excavation soil and groundwater sampling. The geologist noted the subsurface materials

encountered in the excavation. In addition, a photoionization detector (PID) was used during the soil excavation to screen for Volatile Organic Compounds (VOCs). Results were measured in parts per million by volume (ppmv) and documented in the field notes. PID readings were used as a guide for determining the lateral extent and depth of the remedial excavation.

The UST-removal work was conducted in two events in the summer of 2015. Four gasoline tanks were removed from a single excavation in May. Due to the difficult access, the fifth tank (a 250 gallon used-oil tank) was later excavated in July 2015. The G-Logics work included the following during the tank-removal work:

- Observed the cleaning and off-site removal of five USTs and the associated piping from the Property. Conducted the work in accordance with local, state, and federal regulations/guidelines. The tanks were physically removed by others (Santa).
- Evaluated the potential presence of petroleum hydrocarbon-contaminated soils and removed them to the extent necessary.
- Performed the requisite UST Site Assessment as outlined in the Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks* (Ecology, 2003).
- Provided documentation of the UST closure, consistent with Ecology-reporting requirements (this report).

To assist the tank-removal contractor with this project, G-Logics provided the following services:

- Provided a licensed UST Decommissioner (Clearcreek).
- Provided a licensed UST Site Assessor (G-Logics).
- Observed the removal of the USTs.
- Observed the conditions of the USTs, associated piping, and soils exposed in the walls and floor of the excavations.
- Collected numerous soil samples (from the UST excavation) for chemical analysis.
- Submitted post-excavation soil and groundwater samples to an accredited laboratory (Libby Environmental and Fremont Analytical) for analytical testing.
- Compared analytical results to the MTCA Cleanup Levels.

- Prepared this report summarizing the field activities, analytical results, and recommendations regarding the UST closures.
- Submitted the appropriate documentation to the Ecology UST Program.

This Interim Cleanup Action Report is understood to meet the requisite reporting requirements for permanent closure of the former USTs. Details regarding the excavation and sampling findings are further discussed below.

## **7.1 Excavation of Gasoline USTs**

Tanks 1, 2, 3, and 4 (and associated piping) were located in the same area and were removed in one mass excavation beginning in May of 2015. The approximate locations of these USTs are shown on Figure 13. Upon exposure, tanks 1 through 4 were found to have been filled with control-density fill (CDF) to varying levels within the tanks. Prior to removing the USTs, water that had collected in the tanks was removed and placed into 55-gallon drums for on-site storage. The water was analyzed for disposal purposes. The tanks then were inerted by a marine chemist and opened to access the contents. The CDF within the tanks was removed and ultimately disposed off-site as petroleum-contaminated material. The tanks were removed from the Site by Clearcreek for recycling/disposal. The Ecology “30-Day Notice”, City of Issaquah Tank Removal Permit, UST disposal documentation, Site Assessment Checklist, and material-disposal receipts are included in Appendix J.

The USTs and associated piping were visually reviewed upon removal and no evidence of obvious holes was noted (some corrosion was present). The USTs were constructed of single-wall steel. The UST excavations were completed to a maximum depth of approximately 12 feet. Once the tanks and suspected-contaminated soil were removed, performance and confirmation soil samples were collected from the bottom and sidewalls of the excavation.

### **7.1.1 Soil Sampling**

A G-Logics geologist (and site assessor) screened the excavated soils and observed the condition of the walls and base of the UST excavations for visual evidence of staining and odors. Performance and confirmation soil samples were collected from the excavation bottom and sidewalls to document the successful removal of petroleum-contaminated soil (predominantly benzene-contaminated soil). A mobile analytical

laboratory (Libby Environmental) again was used to analyze samples during the UST excavation. Soil samples were analyzed for the presence of one or more of the following compounds: gasoline-range organics (GRO), diesel-range organics (DRO), heavy-oil range organics (ORO), VOCs, MTBE and lead.

Collected soil samples were placed in laboratory supplied glass containers and given directly to the analyst. Several samples that could not be analyzed using the mobile laboratory were provided to Fremont Analytical in Seattle, WA. Sample labels were fixed to all sample jars and included the following information: sample number, owner name, date and time of collection, and the sampler's initials. Appropriate chain-of-custody records were completed.

### ***7.1.2 Soil Disposal***

Approximately 520 tons of suspected and confirmed petroleum-contaminated soil was removed from the area surrounding the excavation for Tanks 1 through 4. This soil was transported to a Rabanco disposal facility following receipt of the analytical results. Copies of the truck-weight tickets for the contaminated soil disposal are included in Appendix J.

### ***7.1.3 Post Excavation Confirmation Soil Sample Analytical Results***

Once Tanks 1, 2, 3, and 4, and the suspected-contaminated soils were removed, performance soil samples were collected from the bottom and sidewalls of the excavation. Initial sample results indicated that petroleum contaminants remained in place and required removal (the primary constituents of concern were GRO and benzene). The excavation was extended vertically and laterally in order to remove the remaining contaminated soil. Confirmation soil samples collected from the excavation bottom and sidewalls indicated that contaminated soils above MTCA Method A cleanup levels were successfully removed.

Sampling locations and the lateral extent of the excavation also are shown on Figure 13a, with analytical results presented in Table 8. The laboratory reports and chain-of-custody documentation for samples collected in the service-station area are presented in Appendix K.

#### **7.1.4 Groundwater Sample Analytical Results**

Two samples (T1-W-2 and T1-W-8) of infiltrating groundwater were collected from the excavation after the contaminated soil was removed. The samples contained low-level concentrations of GRO and BTEX compounds. However, all detected concentrations were below the associated MTCA Method A cleanup levels. The locations of collected groundwater samples also are shown on Figure 13a, with analytical results summarized in Table 9.

### **7.2 Excavation of Used-Oil UST**

Tank 5 was a used-oil UST located on the east side of the former service station. This tank was reportedly 250 gallons and was found intact and full of an oily-water mixture. Prior to removing the UST, the tank contents were removed and placed into 55-gallon drums for later disposal. The water was analyzed prior to disposal. The analytical results from the tank contents were used to guide the analyses that were performed for the excavation-confirmation samples. The tank then was inerted by a marine chemist and opened to access the contents. The tank was cleaned on-site by Clearcreek and then recycled and a local facility. UST-disposal documentation, Decommissioning Checklist, and material-disposal receipts are included in Appendix J.

The UST and associated piping were visually reviewed upon removal and no evidence of obvious holes were noted in the UST (some corrosion was present). The UST was constructed of single-wall steel. The Tank 5 excavation was completed to a maximum depth of approximately 6.5 feet. A *de minimis* volume of suspected contaminated soil was removed from the excavation and stockpiled for sampling. Performance and confirmation soil samples then were collected from the bottom and sidewalls of the excavation.

#### **7.2.1 Soil Sampling**

A G-Logics geologist (and site assessor) screened the excavated soils and observed the condition of the walls and base of the UST excavation for visual evidence of staining and odors. Performance and confirmation soil samples were collected from the excavation bottom and sidewalls to document the successful removal of petroleum-contaminated soil. A mobile-analytical laboratory (Libby Environmental) was used to analyze samples during the UST excavation. Soil samples were analyzed for the presence of one or more of the following compounds: GRO, DRO, ORO, VOCs (including EDB and EDC),

MTBE, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs), and lead.

Collected soil samples were placed in laboratory supplied glass containers and given directly to the analyst. Several samples that could not be analyzed using the mobile laboratory were provided to Fremont Analytical in Seattle, WA. Sample labels were fixed to all sample jars and included the following information: sample number, owner name, date and time of collection, and the sampler's initials. Appropriate chain-of-custody records were completed.

### ***7.2.2 Soil Disposal***

Approximately 38 tons of suspected and confirmed petroleum-contaminated soil was removed from the Tank 5 excavation. This soil was transported to a Rabanco disposal facility following receipt of the analytical results. Copies of the truck-weight tickets for the contaminated soil disposal are included in Appendix J.

### ***7.2.3 Post Excavation Confirmation Soil Sample Analytical Results***

Confirmation soil samples collected from the excavation bottom and sidewalls indicated that contaminated soils above MTCA Method A cleanup levels were successfully removed. Tank 5 sampling locations are shown on Figure 13a, with analytical results summarized in Table 10. The laboratory reports and chain-of-custody documentation are presented in Appendix K.

### ***7.2.4 Groundwater Sample Analytical Results***

Groundwater was not encountered during the Tank 5 excavation and no groundwater samples were collected.

## **7.3 Quality Assurance/ Quality Control**

Quality Assurance/Quality Control (QA/QC) for the presented scope of work included generally accepted procedures for sample collection, storage, tracking, and documentation. All sampling equipment was washed with a detergent wash and tap-water rinse before the collection of the samples. Appropriate chain-of-custody documentation was completed.

The laboratory validated the analytical procedures by processing laboratory-control samples and method-blank samples from each exploration. Several blind duplicate samples also were analyzed by the laboratory. Results were within acceptable limits for QA/QC standards. Laboratory QA/QC information is included (with the laboratory report) in Appendix K.

## **8.0 CLEANUP ACTION CONCLUSIONS**

Presented below are the conclusions regarding the remedial actions performed in the former dry-cleaner area and the former service-station area.

### **8.1 Former Dry Cleaner**

Based on the confirmation soil samples collected from the dry-cleaner excavation and remedial-dewatering system excavation, G-Logics concludes that chlorinated-solvent contaminated soil at this Site have been successfully remediated in accordance with MTCA requirements. Therefore, G-Logics believes that no further action is required to address the contaminated soil in the former dry-cleaner area.

In addition, with the EAB treatment performed in the spring of 2016 and based on subsequent quarterly groundwater sampling, G-Logics concludes that chlorinated-solvent contaminated groundwater at the Site has been successfully remediated. With four quarters of clean samples, the analytical results indicate that vinyl chloride has been successfully degraded to concentrations below cleanup levels across the Site. Therefore, G-Logics believes that no further action is required to address the chlorinated-solvent contamination in the former dry-cleaner area.

### **8.2 Former Service Station**

Based on the confirmation soil samples collected from the former UST excavations, G-Logics concludes that petroleum-contaminated soils at this Site have been successfully remediated in accordance with MTCA requirements. Therefore, G-Logics believes that no further action is required to address the contaminated soil in the former service-station area. In addition, contaminated groundwater was not encountered in prior groundwater sampling or in either UST excavation. Therefore, G-Logics believes that no further action is required to address the identified petroleum contamination in the former service-station area.

### **8.3 Request for a No Further Action Determination**

At the request of Ecology, G-Logics has prepared this *Cleanup Action Report* for the Site. This report documents the successful cleanup of contaminated soil and groundwater associated with the former dry cleaner, and the successful closure and removal of on-site USTs and associated contaminated soils. Based on the completed remedial work, it is our professional opinion that the Site is eligible for and we are requesting an Unrestricted No Further Action Determination from Ecology. This report presents the necessary data to support this NFA Determination.

### **9.0 LIMITATIONS**

The information presented in this report is based on our visual observations, field-screening information, and the analyses of the samples collected during this project. The information contained in this report is intended exclusively for the purpose outlined herein and for the site location and project indicated. Our scope of work was limited to those items specifically identified in this report.

This report is prepared for the sole use of our client. The scope of services performed during this assessment may not be appropriate for the needs of other users. Re-use of this document or the findings, conclusions, or recommendations presented herein, are at the sole risk of said user(s). Any party other than our client who would like to use this report shall notify G-Logics of such intended use by executing the “Permission and Conditions for Use and Copying” contained in this document (Attachment). Based on the intended use of the report, G-Logics may require that additional work be performed and that an updated report be issued. Non-compliance with any of these requirements will release G-Logics from any liability resulting from the use of this report by any unauthorized party.

Opinions and recommendations presented herein apply to conditions existing at the time of our work and do not necessarily apply to future changes at the Property. Land use, site conditions (both on and off Property), and other factors will change over time. Since Property activities and cleanup regulations could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of this report.

No warranty, either express or implied, is made.

## REFERENCES

Additional Documents listed in Section 2.0 and Section 5.0 of this report.

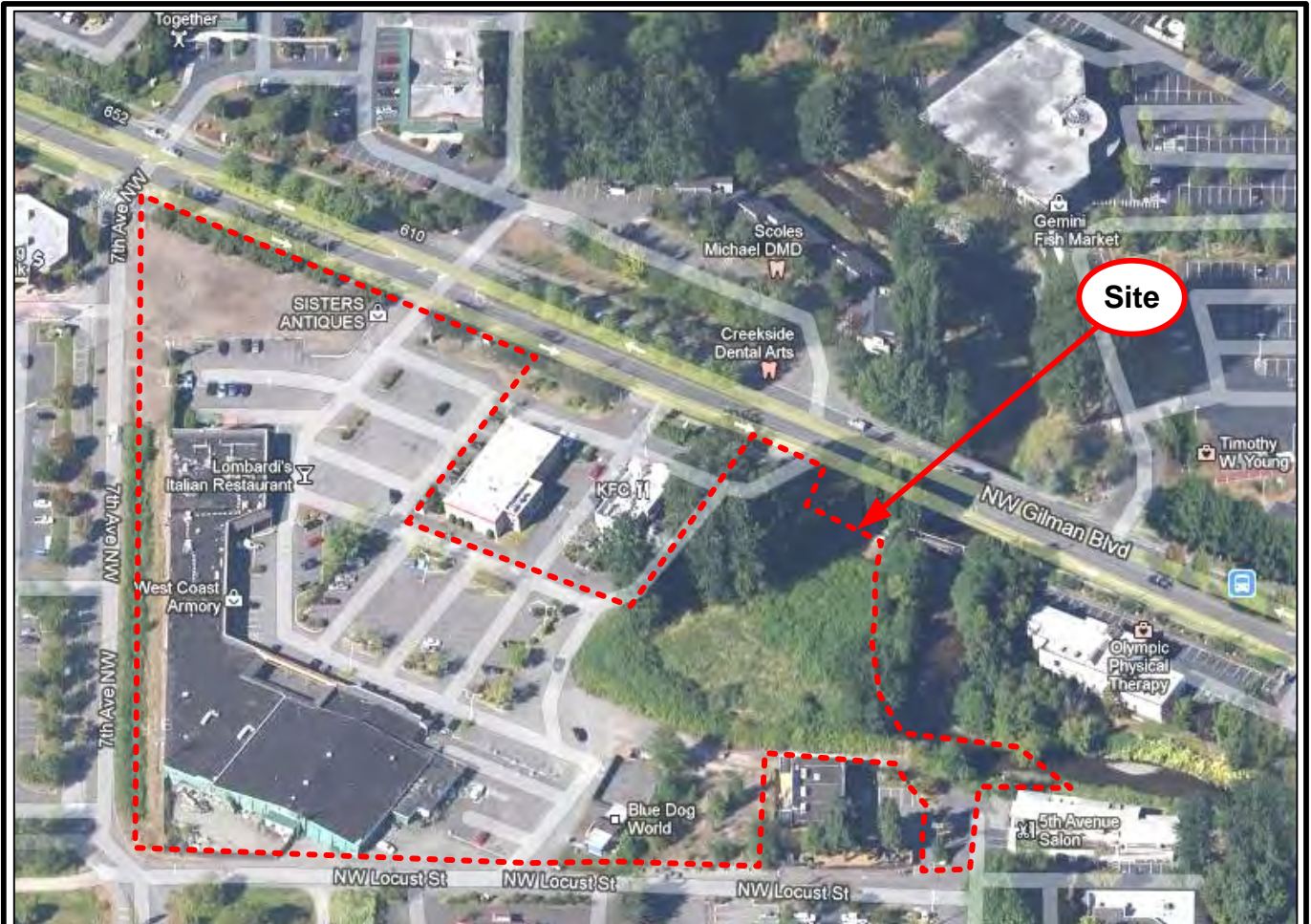
Washington Administrative Code, chapter 173-160. *Minimum Standards for Construction and Maintenance of Wells.*

Washington Department of Ecology (Ecology), 1991, *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*, Washington State Department of Ecology Publication No 90-52, Revised April, 2003.

Washington Department of Ecology (Ecology), 2011, *Guidance for Remediation of Petroleum Contaminated Sites*, Washington State Department of Ecology Publication No 10-09-057.

Washington Department of Ecology (Ecology), 2001, *The Model Toxics Control Act Cleanup Regulation*, chapter 173-340 WAC: Olympia, Wash., Washington State Department of Ecology Publication No 94-06, Amended November, 2007, Revised 2013.

# FIGURES



Aerial Photograph Taken in 2012



Mapping Reference: Delorme and Google Maps

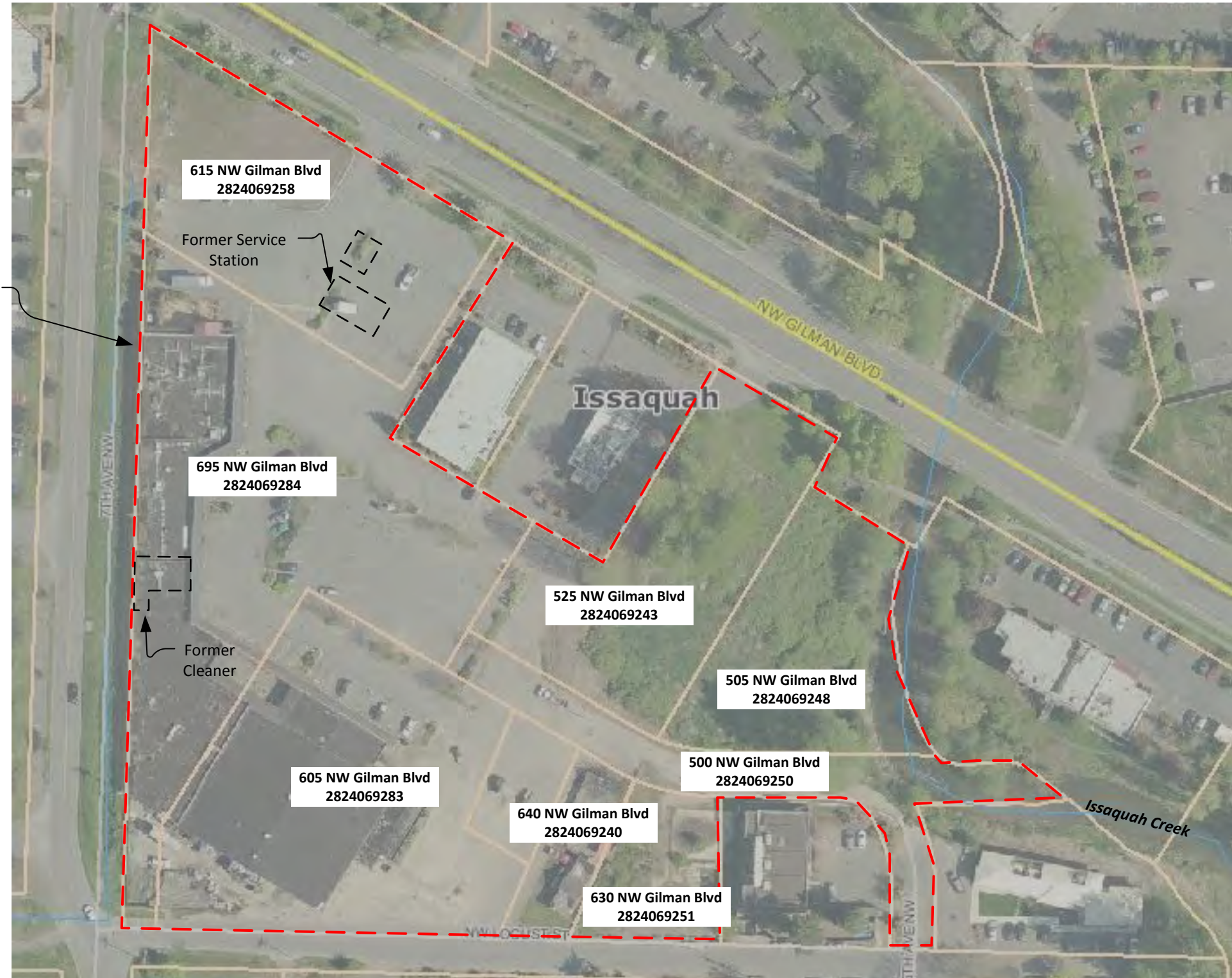


**Site Location Maps**  
**Gilman Square**  
**615 Northwest Gilman Blvd**  
**Issaquah, Washington**

**Figure**  
**1**



Property Boundary



Aerial Photograph Taken in 2012

Approximate Drawing Scale: 1" = 100'

0 ft. 60 ft. 100 ft. 200 ft.

Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



**Site Diagram, Former Tax-Parcel Numbers and Addresses**  
**Gilman Square**  
**615 Northwest Gilman Blvd**  
**Issaquah, Washington**

Figure  
2



Property Boundary

Former Service Station

1118 7<sup>th</sup> Ave NW  
2824069284

Former Dry Cleaner

No Address Given  
282406943

600 NW Locust St  
2824069283

Issaquah Creek

Approximate Drawing Scale: 1" = 100'  
0 ft. 60 ft. 100 ft. 200 ft.

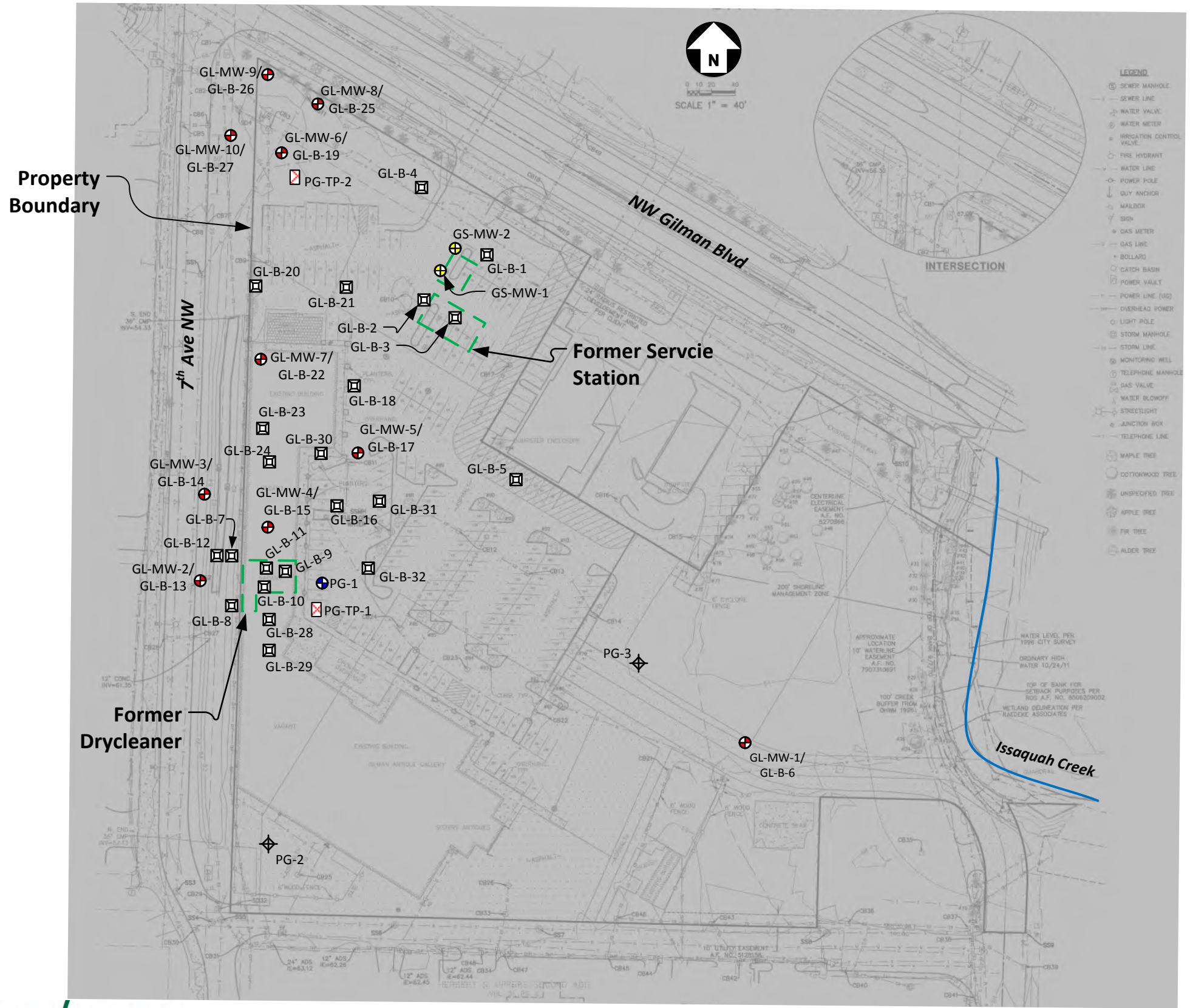
Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Aerial Photograph Taken in 2015



**Site Diagram, Current Tax-Parcel Numbers and Addresses  
Gilman Square  
615 Northwest Gilman Blvd  
Issaquah, Washington**

Figure  
2a



**Legend**

- Previously Installed Groundwater-Monitoring Well Location (abandoned)
- G-Logics Groundwater-Monitoring Well Location (abandoned)
- G-Logics Boring Location
- PanGEO Groundwater-Monitoring Well Location (abandoned)
- PanGEO Geotechnical Boring Location
- PanGEO Geotechnical Testpit Location

Approximate Drawing Scale: 1" = 100'

0 ft. 60 ft. 100 ft. 200 ft.

Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

**Site Diagram, Exploration Locations  
Gilman Square  
615 Northwest Gilman Blvd  
Issaquah, Washington**

**Figure  
3**



NW Locust Street








7<sup>th</sup> Ave NW

Former Drycleaner

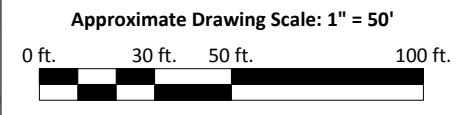
Former Gas Station

NW Gilman Blvd

**Legend**

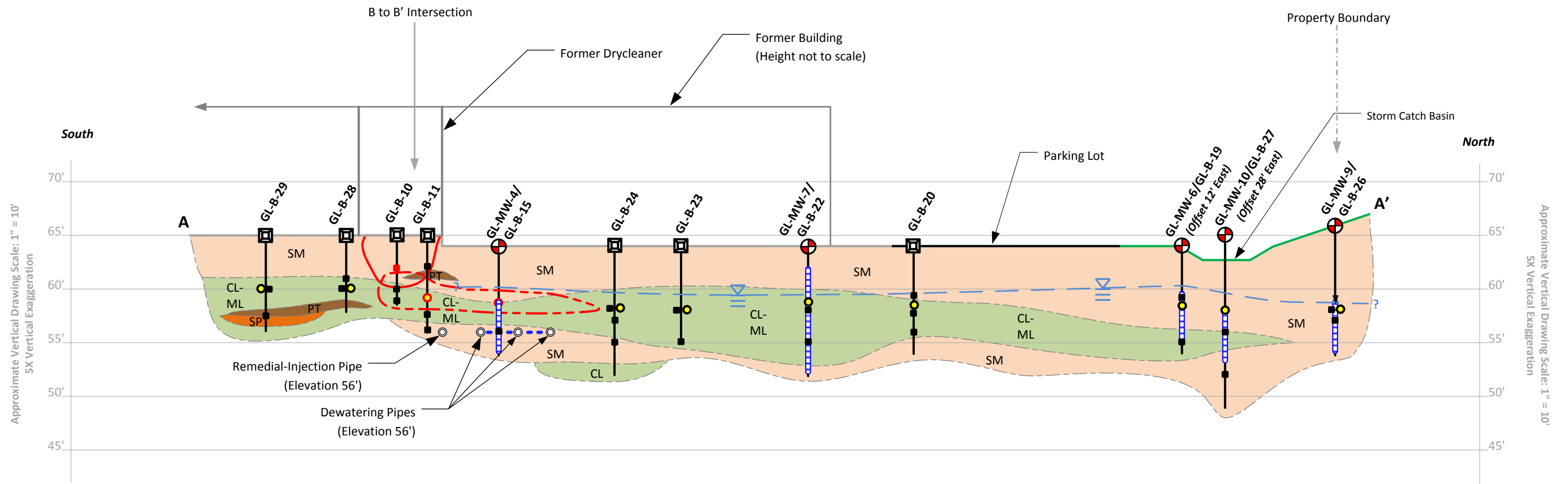
-  Previously Installed Groundwater-Monitoring Well Location (abandoned)
-  G-Logics Groundwater-Monitoring Well Location (abandoned)
-  G-Logics Boring Location
-  PanGEO Geotechnical Groundwater-Monitoring Well Location (abandoned)
-  PanGEO Geotechnical Boring Location
-  PanGEO Geotechnical Testpit Location
-  Interpreted Area of Vinyl Chloride-Contaminated Groundwater (Above MTCA Method A Cleanup Level of 0.2 µg/L, Based on 2013 and 2014 Data)

Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



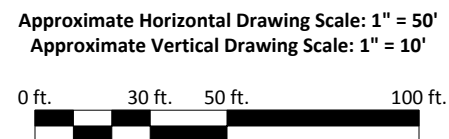
**Dry Cleaner Area, Cross-Section Locations**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

**Figure**  
**4**



### Boring Legend

- G-Logics Groundwater-Monitoring Well Location
- G-Logics Boring Location
- Approximate Extent of Cl Solvent-Contaminated Soil
- Approximate Extent of Cl Solvent-Contaminated Groundwater
- SM** USCS Soil Type and Approximate Boundary
- Approximate Water Table Elevation (Based on June 2014 Data)
- Soil Sample, PCE concentration below cleanup levels of 0.05 mg/kg
- Soil Sample, PCE concentration above cleanup levels of 0.05 mg/kg
- Groundwater Sample, Vinyl Chloride concentration below cleanup levels of 0.2 ug/L
- Groundwater Sample, Vinyl Chloride concentration above cleanup levels of 0.2 ug/L
- Well Screen Interval



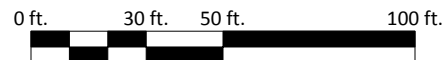
Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

**Dry Cleaner Area, Cross Section A to A'**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

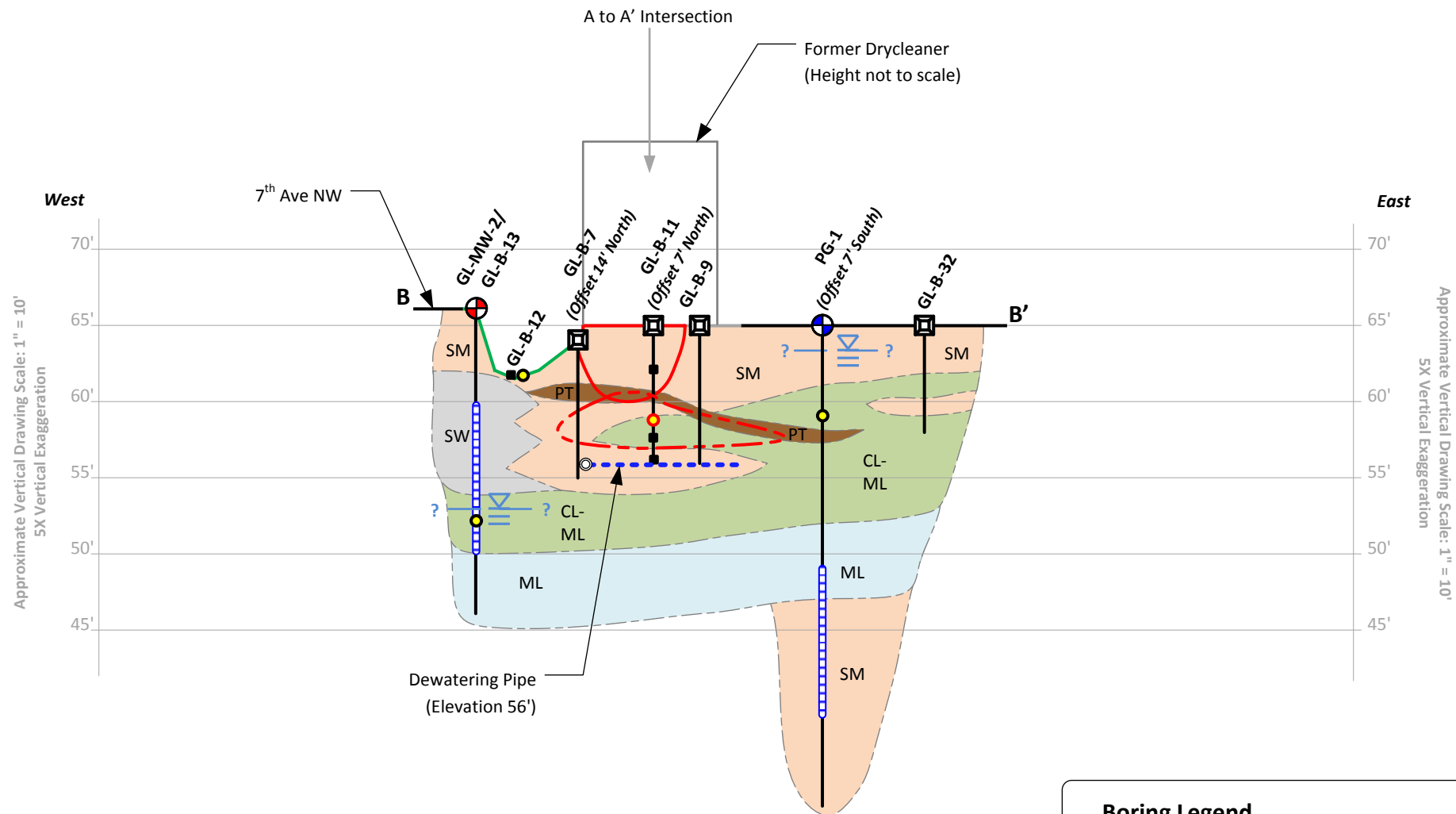
**Figure 5**



Approximate Horizontal Drawing Scale: 1" = 50'  
 Approximate Vertical Drawing Scale: 1" = 10'



Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



**Boring Legend**

- G-Logics Groundwater-Monitoring Well Location
- G-Logics Boring Location
- Approximate Extent of Cl Solvent-Contaminated Soil
- Approximate Extent of Cl Solvent-Contaminated Groundwater
- USCS Soil Type and Approximate Boundary
- Approximate Water Table Elevation (Based on June 2014 Data)

- Soil Sample, PCE concentration below cleanup levels of 0.05 mg/kg
- Soil Sample, PCE concentration above cleanup levels of 0.05 mg/kg
- Groundwater Sample, Vinyl Chloride concentration below cleanup levels of 0.2 ug/L
- Groundwater Sample, Vinyl Chloride concentration above cleanup levels of 0.2 ug/L

Well Screen Interval

**Dry Cleaner Area, Cross Section B to B'**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

**Figure 6**



7<sup>th</sup> Ave NW

NW Locust Street

Former Drycleaner Footprint

UST Locations

**Legend**



Drycleaner Area Excavation Boundaries, Performed in Fall of 2014

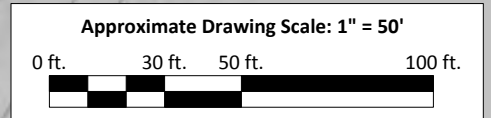


UST-Removal Excavation, Performed in Spring of 2015

UST Location

Former Gas Station

NW Gilman Blvd



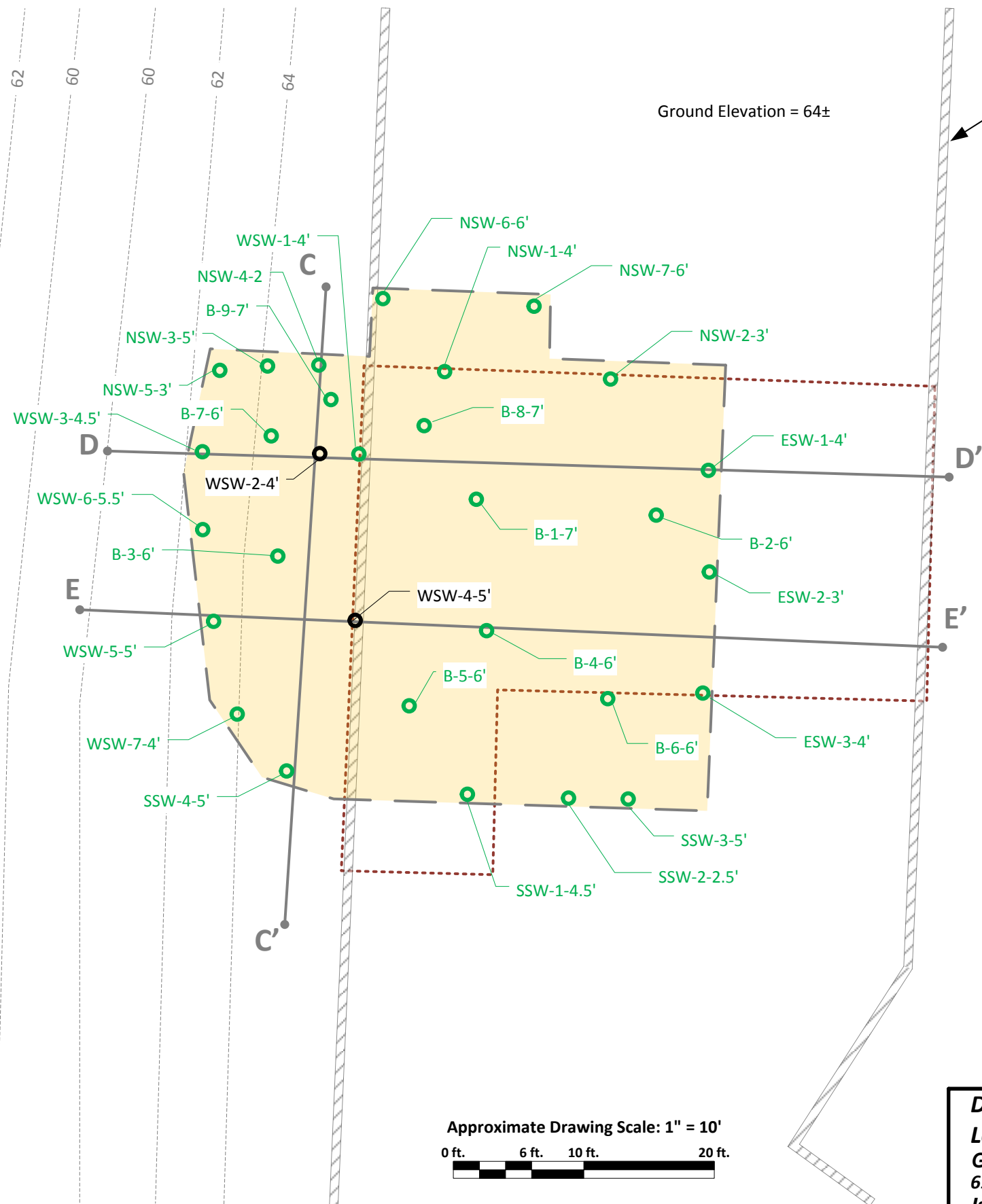
Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



**Site Diagram, Remedial Excavation Locations  
Gilman Square  
615 Northwest Gilman Blvd  
Issaquah, Washington**

**Figure  
7**

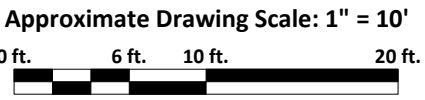
Project File: 01-0868-J-F8.vsd



**Legend**

- Approximate Footprint of Former Drycleaner
- Drycleaner Area Excavation Boundaries
- Excavation Confirmation-Soil Sample Location, Results Below MTCA Method A Cleanup Level
- Excavation Performance-Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)
- 64 2' Contour Line

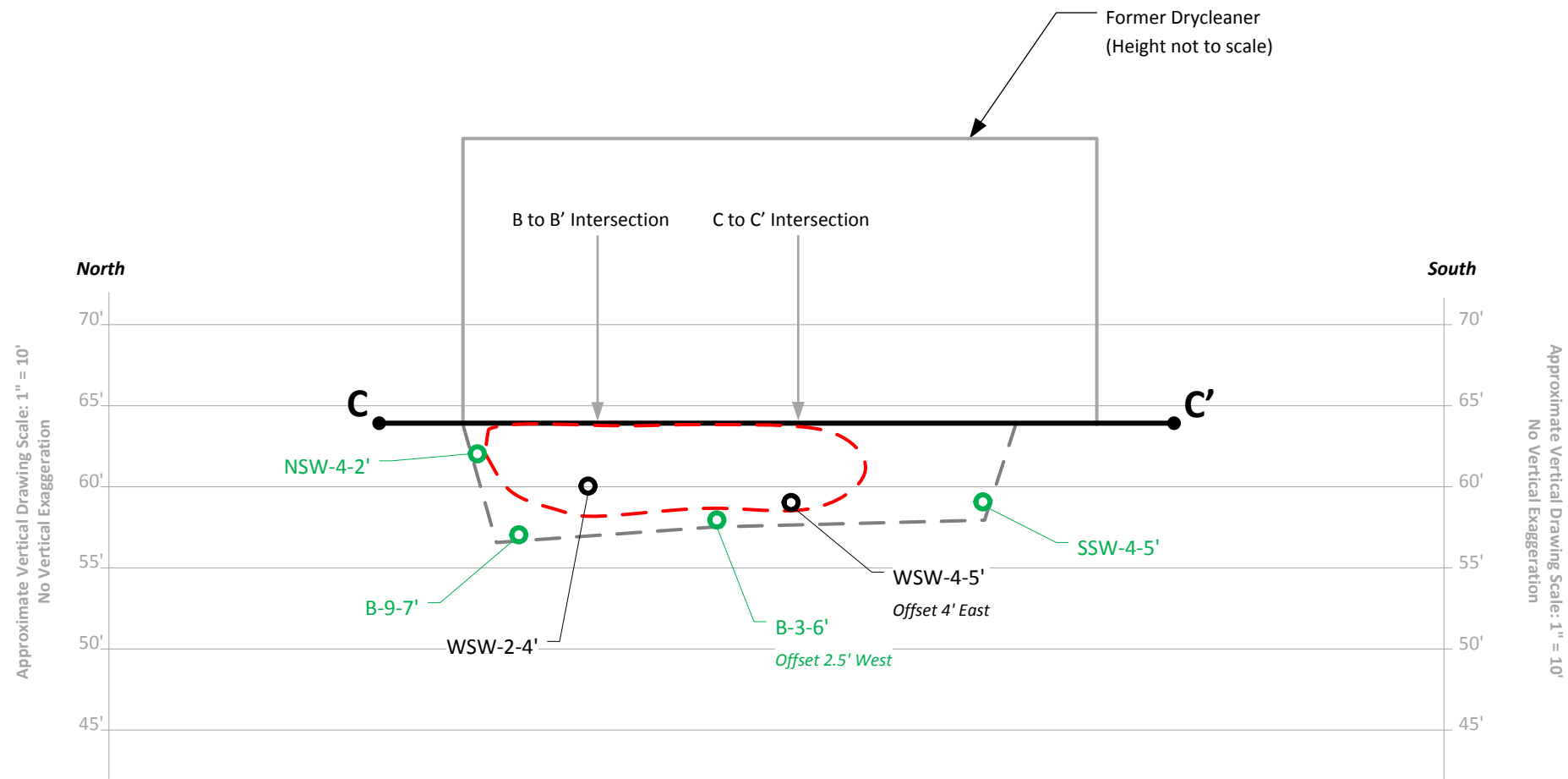
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.







**Dry Cleaner Area, Remedial Excavation-Sampling Locations and Cross-Section Locations**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
8

Mapping Reference: King County iMap, On-Site Measurements, CPH Consultants Demolition and Preload Package (dated May 29, 2014)

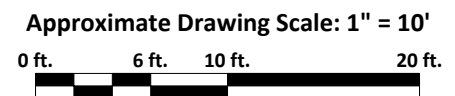


**Legend**

-  Drycleaner Excavation Boundaries
-  B-9-7' — Excavation Confirmation-Soil Sample Location, Results Below MTCA Method A Cleanup Level
-  WSW-2-4' — Excavation Performance-Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)
-  Approximate Extent of Removed PCE-Contaminated Soil above the MTCA Method A Cleanup Level



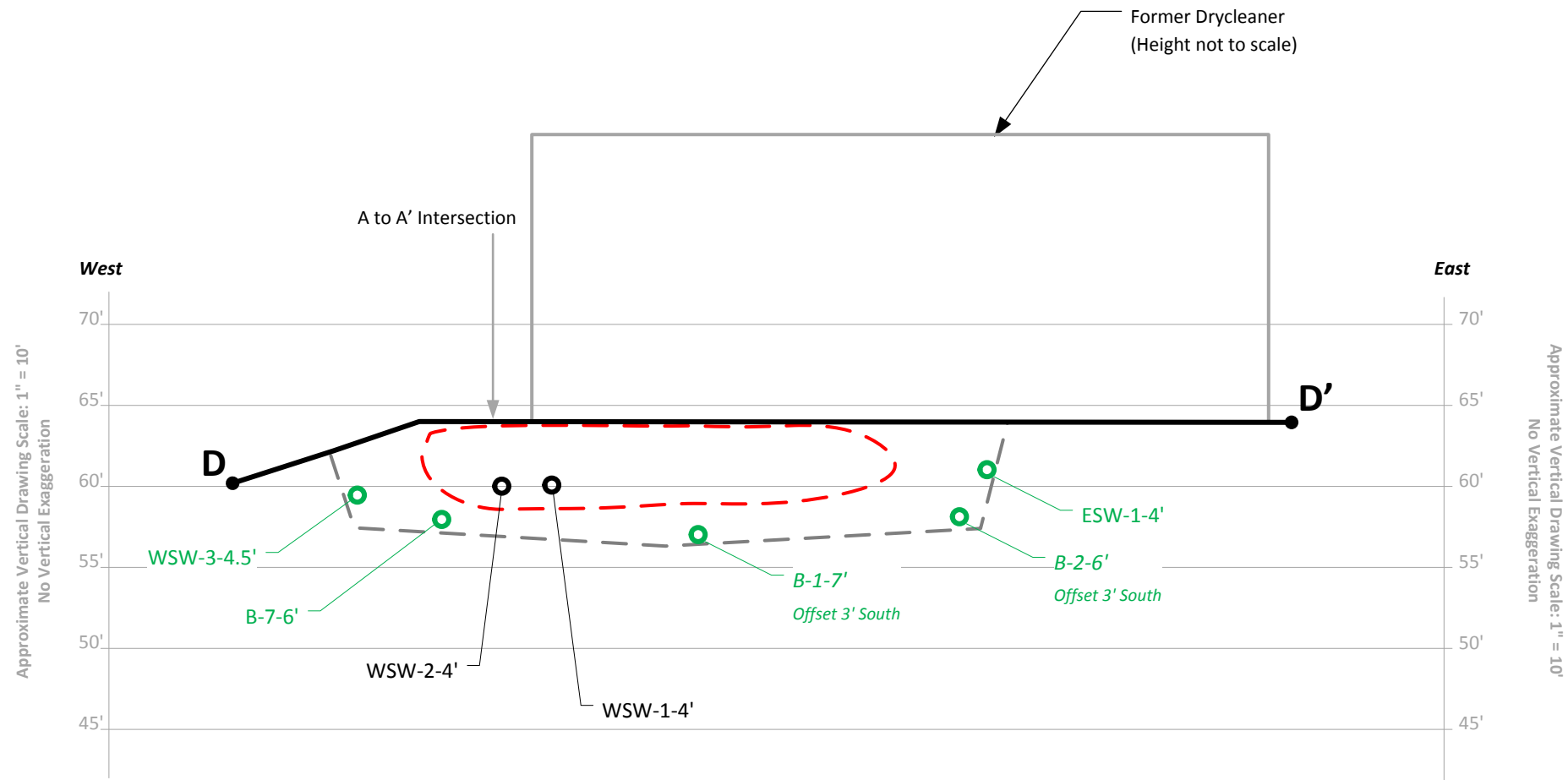
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.







**Remedial Excavation, Cross Section C to C'**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
 8a

Project File: 01-0868-J-F8b.vsd

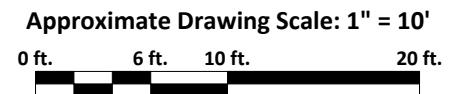


### Legend

-  Drycleaner Excavation Boundaries
-  B-9-7' — Excavation Confirmation-Soil Sample Location, Results Below MTCA Method A Cleanup Level
-  WSW-2-4' — Excavation Performance-Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)
-  Approximate Extent of Removed PCE-Contaminated Soil above the MTCA Method A Cleanup Level

*g-logics*

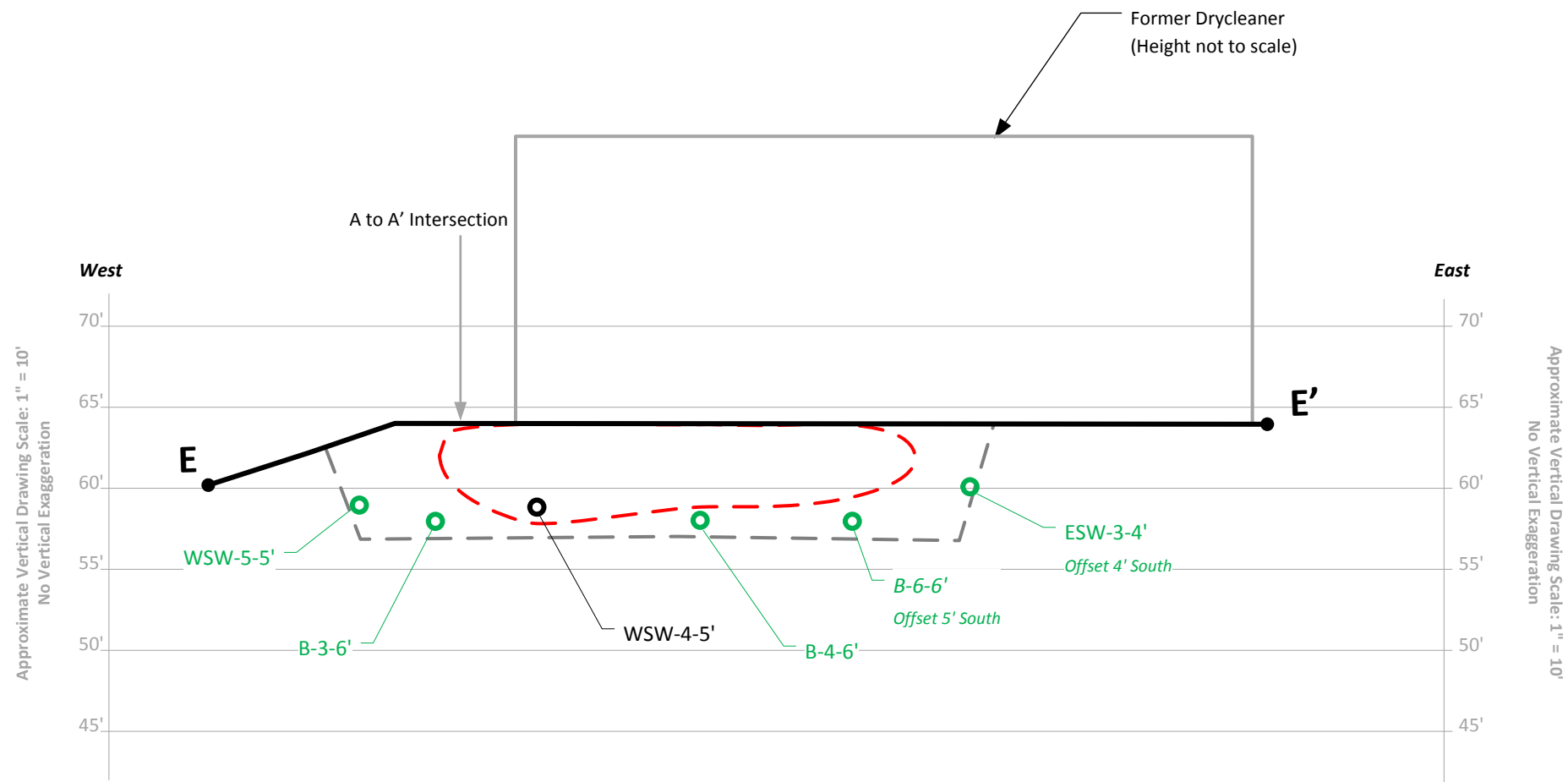
Note: This figure contains information in color. Black & white photocopies may not be suitable for review.







**Remedial Excavation, Cross Section D to D'**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
8b

Project File: 01-0868-J-F8c.vsd

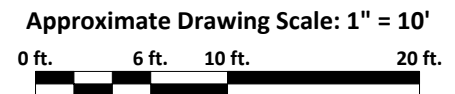


**Legend**

-  Drycleaner Excavation Boundaries
-  B-9-7' — Excavation Confirmation-Soil Sample Location, Results Below MTCA Method A Cleanup Level
-  WSW-4-5' — Excavation Performance-Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)
-  Approximate Extent of Removed PCE-Contaminated Soil above the MTCA Method A Cleanup Level



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.








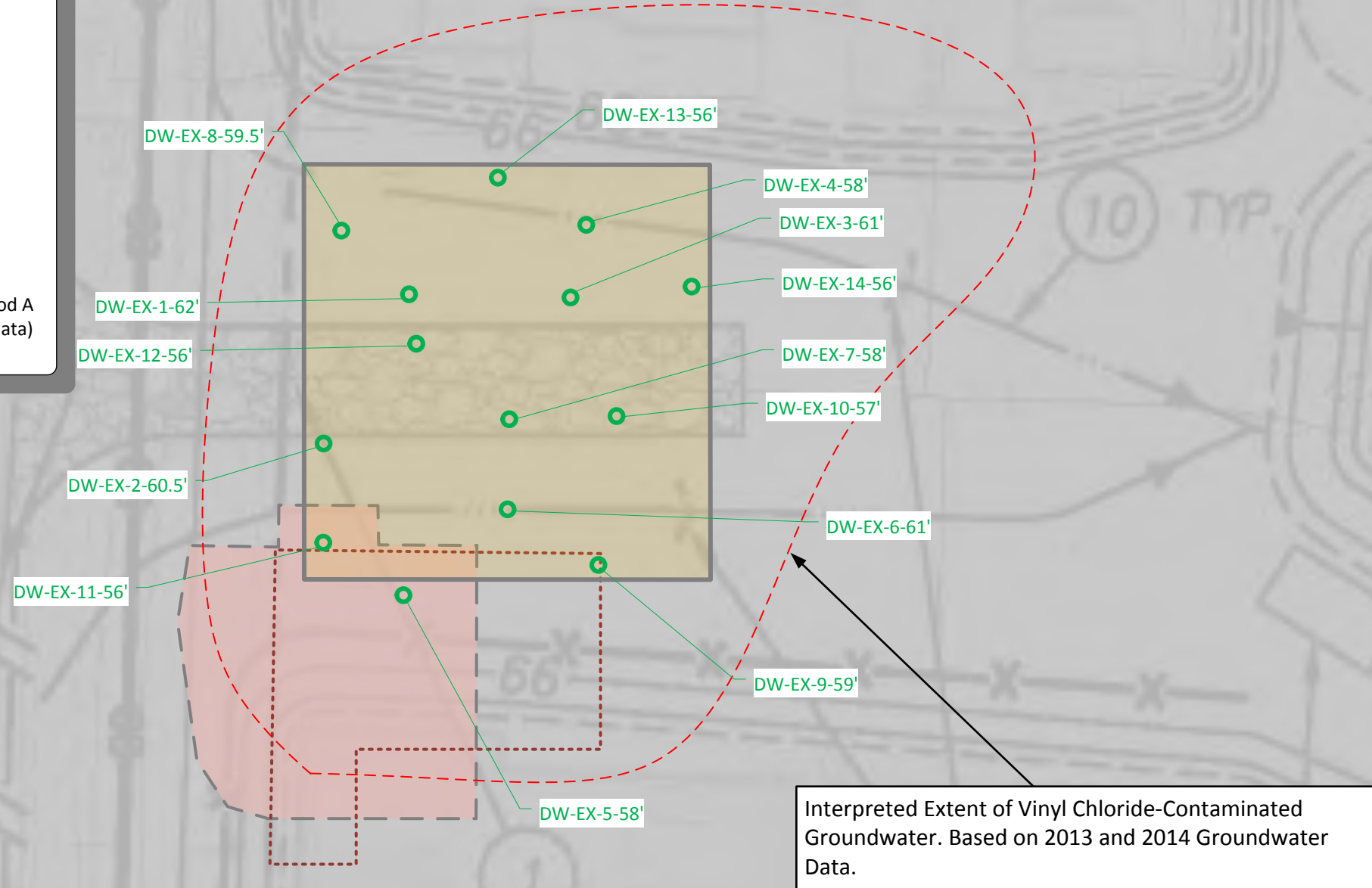
**Remedial Excavation, Cross Section E to E'**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
8c



### Legend

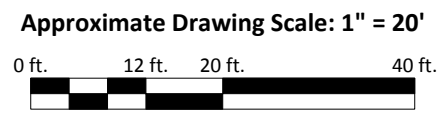
-  Approximate Footprint of Former Drycleaner
-  Dewatering- System Excavation Boundary
-  Former Drycleaner Excavation Boundary
-  DW-EX  
Excavation Sidewall and Bottom Confirmation-Soil Sample Location and Identification
-  Original Interpreted Extent of Vinyl Chloride-Contaminated Groundwater (Above MTCA Method A Cleanup Level of 0.2 µg/L, Based on 2013/2014 Data)



Project File: 01-0868-J-F9.vsd



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



**Remedial-Dewatering System Excavation Sampling**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
 9

**Legend**



Interpreted Area of Vinyl Chloride-Contaminated Groundwater (Above MTCA Method A Cleanup Level of 0.2 µg/L, Based on 2013 and 2014 Data)



4" Diameter, Perforated PVC Pipes (number indicates pipe length)



4" Diameter, Solid PVC Pipes

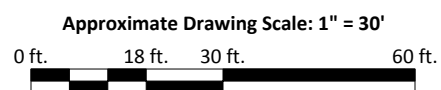


Riser for Dewatering

Former-Drycleaner Footprint. Area Excavated in September/October 2014.

Interpreted Extent of Vinyl Chloride-Contaminated Groundwater. Based on 2013 and 2014 Groundwater Data.

Horizontal 4" Perforated PVC Pipes at Elevation 56'. Connected to 4" solid PVC Manifold. Manifold Connected to 24" Vertical Riser for Dewatering.



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

**Remedial-Dewatering System Diagram**






**Gilman Square**  
615 Northwest Gilman Blvd  
Issaquah, Washington

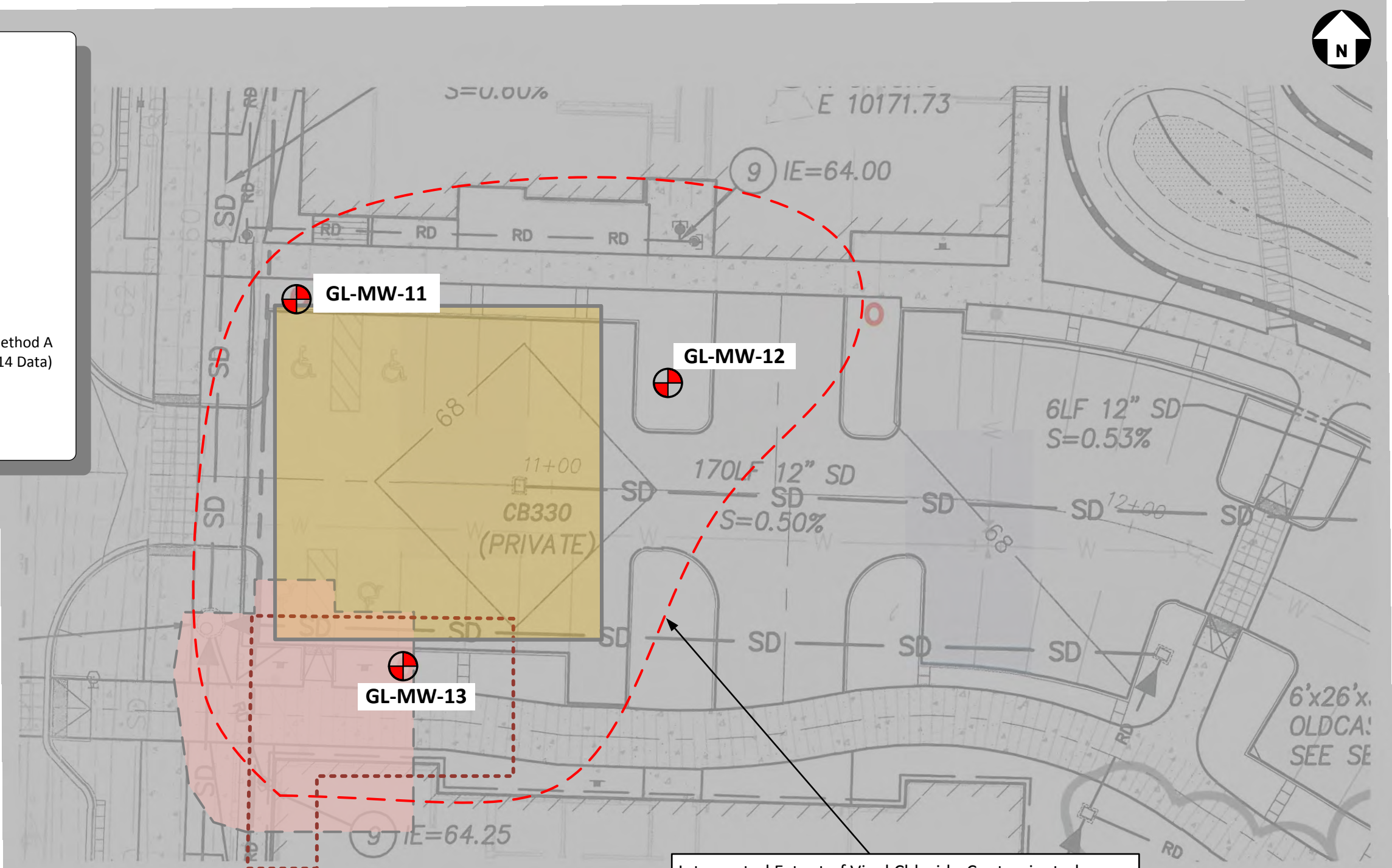
Figure  
10

Project File: 01-0868-J-F10.vsd



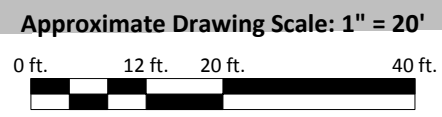
### Legend

-  Approximate Footprint of Former Drycleaner
-  Dewatering- System Excavation Boundary
-  Former Drycleaner Excavation Boundary
-  Original Interpreted Extent of Vinyl Chloride-Contaminated Groundwater (Above MTCA Method A Cleanup Level of 0.2 µg/L, Based on 2013/2014 Data)
-  G-Logics Well Location, Installed in 2015



Interpreted Extent of Vinyl Chloride-Contaminated Groundwater. Based on 2013 and 2014 Groundwater Data.

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



**Current Well Locations**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington




**Figure**  
**11**

Project File: 01-0868-J-F11.vsd






### Legend

-  Approximate Footprint of Former Drycleaner
-  Dewatering- System Excavation Boundary
-  Former Drycleaner Excavation Boundary

### Data Legend

 **Monitoring Well ID, Sample Date, and Vinyl Chloride Concentrations (units ug/L)**

Monitoring Well ID	Sample Date	Vinyl Chloride Concentration (ug/L)
GL-MW-11	06/25/15	<b>0.429</b>
	09/2/15	<b>0.568</b>
	12/8/16	---
	01/7/16	<0.200
	06/8/16	<10.0
	10/12/16	<4.08
GL-MW-12	06/25/15	<b>0.751</b>
	09/2/15	<b>0.378</b>
	01/7/16	<0.200
	06/8/16	<10.0
GL-MW-13	06/25/15	<0.200
	09/2/15	---
	01/7/16	---
	06/8/16	<10.0
	10/12/16	<4.08

**0.429** and **0.568** are bolded and yellow shaded, indicating Vinyl Chloride Detected Above MTCA Cleanup Level of 0.2 ug/L.

--- indicates that sample was not collected.

Peach shading indicates Laboratory Detection Limit Exceeds the Applicable MTCA Cleanup Level.

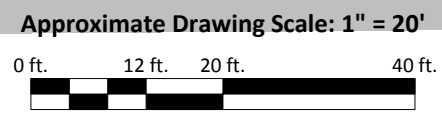
<0.200 indicates Vinyl Chloride Not Detected Above Specified Reporting Limit.

Monitoring Well ID	Sample Date	Vinyl Chloride Concentration (ug/L)
GL-MW-11	06/25/15	<b>0.429</b>
	09/2/15	<b>0.568</b>
	01/7/16	<0.200
	06/8/16	<10.0
	10/12/16	<4.08
	01/26/17	<0.817
	04/26/17	<0.200
07/17/17	<0.200	

Monitoring Well ID	Sample Date	Vinyl Chloride Concentration (ug/L)
GL-MW-12	06/25/15	<b>0.751</b>
	09/2/15	<b>0.378</b>
	01/7/16	<0.200
	06/8/16	<10.0
	10/12/16	<4.08
	01/26/17	<0.817
	04/26/17	<0.200
07/17/17	<0.200	

Monitoring Well ID	Sample Date	Vinyl Chloride Concentration (ug/L)
GL-MW-13	06/25/15	<0.200
	09/2/15	---
	01/7/16	---
	06/8/16	<10.0
	10/12/16	<4.08
	01/26/17	<0.817
	04/26/17	<0.200
07/17/17	<0.200	

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.









**Current Well Locations, Vinyl Chloride Concentration Data**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

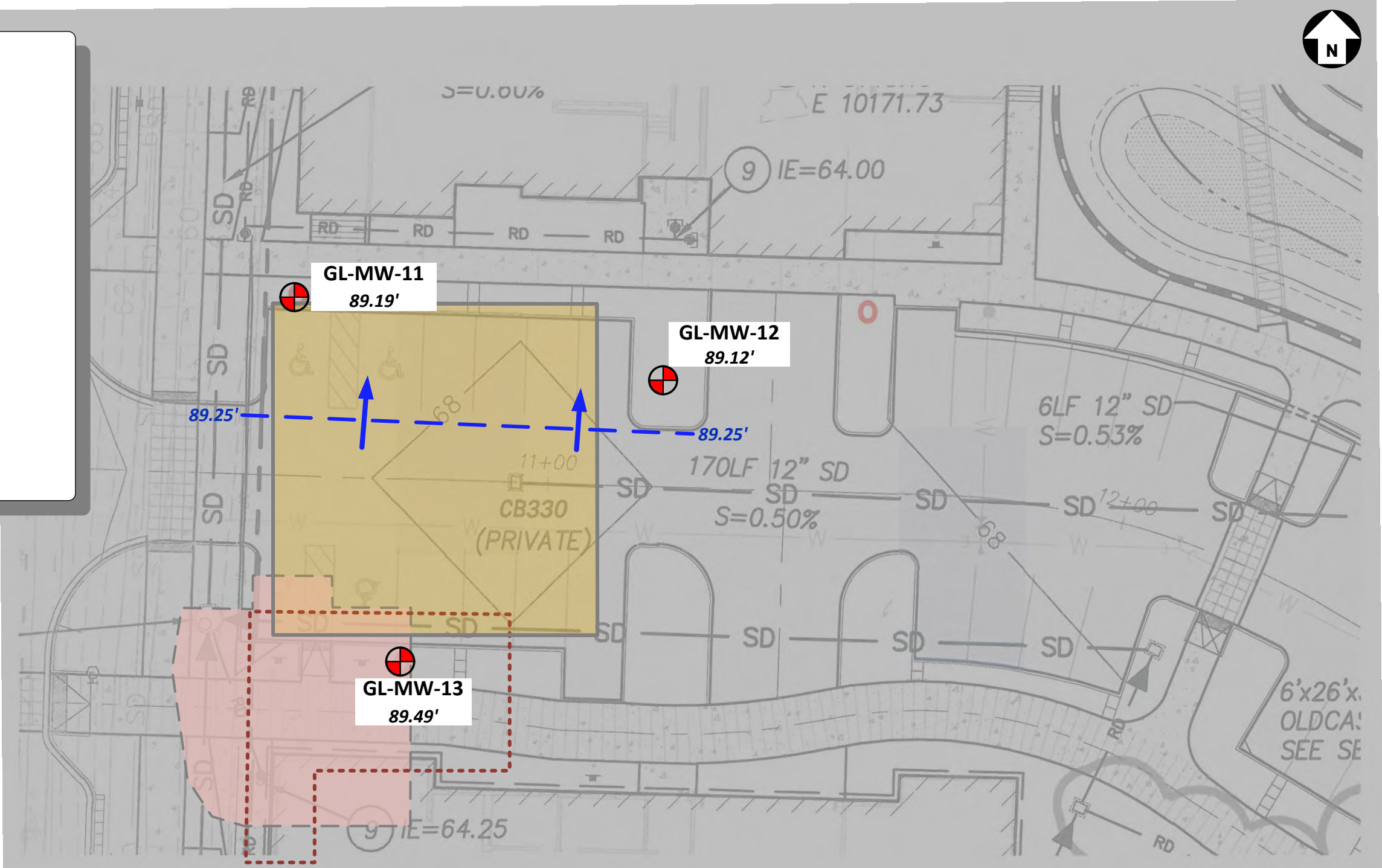
Figure  
 11a



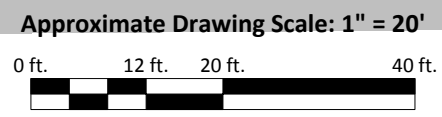


**Legend**

-  Approximate Footprint of Former Drycleaner
-  Dewatering- System Excavation Boundary
-  Former Drycleaner Excavation Boundary
-  G-Logics Well Location and Groundwater Elevation (ft)
-  Inferred Groundwater Elevation Contour
-  Inferred Groundwater Flow Direction



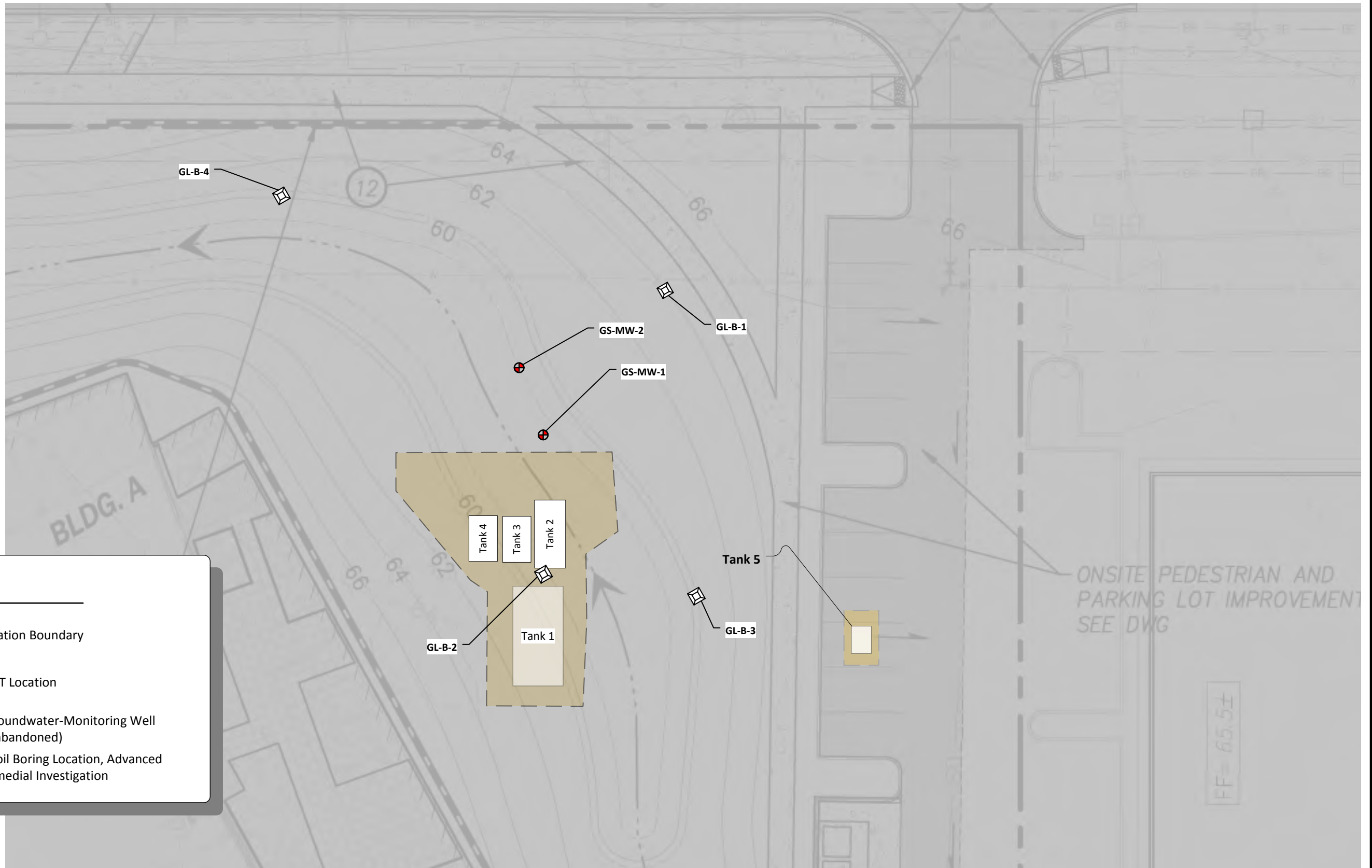
- Notes:**
1. The contours represent an interpretation of available data for the indicated date. Site groundwater contours may change with additional measurements and/or data points, weather changes, construction activities, and/or other influences.
  2. This figure contains information in color. Black & white photocopies may not be suitable for review.



**Interpreted Groundwater Elevation Contours, July 2017**  
**Gilman Square**  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
 12

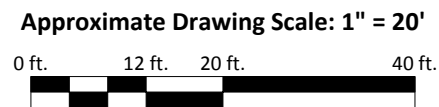
Project File: 01-0868-J-F12.vsd



**Legend**

- UST-Excavation Boundary
- Former UST Location
- Former Groundwater-Monitoring Well Location (abandoned)
- G-Logics Soil Boring Location, Advanced During Remedial Investigation

Note: This figure contains information in color. Black & white photocopies may not be suitable for review.










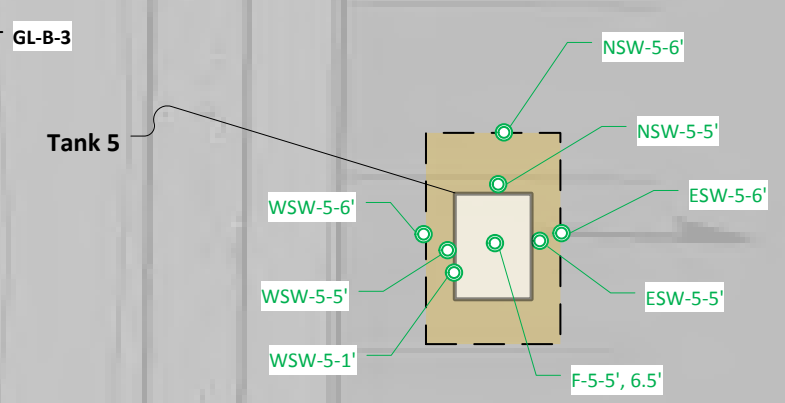
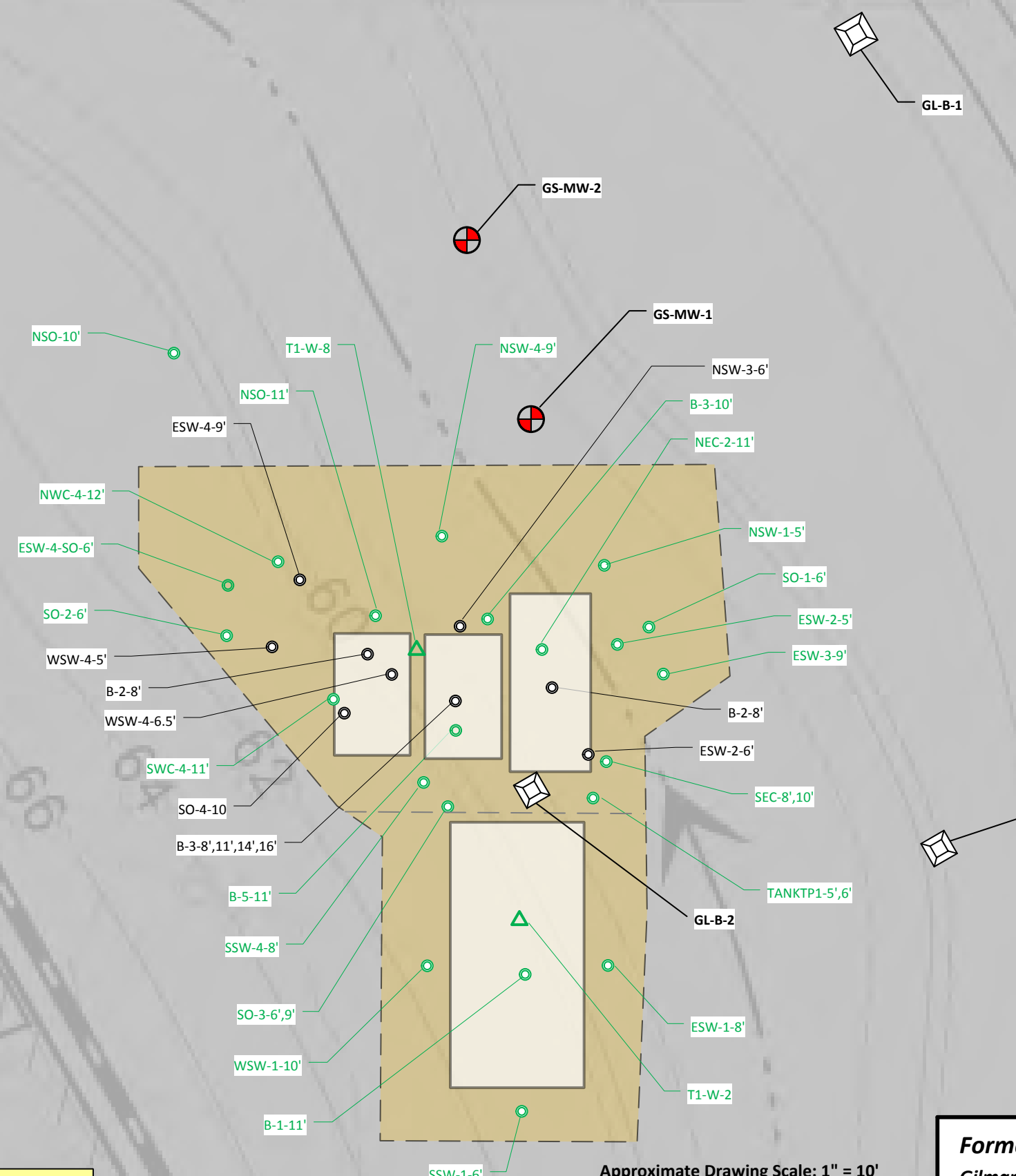
**Former UST Locations and Excavation Boundaries**  
**Gilman Square**  
615 Northwest Gilman Blvd  
Issaquah, Washington

Figure  
13



**Legend**

-  UST-Excavation Boundary
-  Former UST Location
-  Former Groundwater-Monitoring Well Location (abandoned)
-  G-Logics Soil Boring Location, Advanced During Remedial Investigation
-  B-1-11' Excavation Confirmation-Soil Sample Location, Results Below MTCA Method A Cleanup Level
-  T1-W-2 Sample Collected of Infiltrating Groundwater, Results Below MTCA Method A Cleanup Level
-  ESW-2-6' Excavation Performance-Soil Sample Location, Results Above MTCA Method A Cleanup Level (soil subsequently removed)



Note: This figure contains information in color. Black & white photocopies may not be suitable for review.

Approximate Drawing Scale: 1" = 10'  
 0 ft. 6 ft. 10 ft. 20 ft.

**Former UST Excavation-Sampling Locations**  
 Gilman Square  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

Figure  
 13a

Project File: 01-0868-J-F13a.vsd

# TABLES

**TABLE 1**

**Groundwater Elevation Measurements  
Gilman Square  
615 NW Gilman Blvd, Issaquah, WA**

Location Designation	Well Installation Date	Ecology Well Tag Number	Elevation Top of PVC Casing (ft.)*	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
GS-MW-1	4/18/94	N/A	65.05	---	8.7	2.0	8/22/13	6.14	58.91
							12/12/13	4.64	60.41
							2/4/14	3.89	61.16
							6/25/14	4.82	60.23
							9/4/14	5.14	59.91
							Well Decommissioned September 2014		
GS-MW-2	4/18/94	N/A	65.24	---	9.7	2.0	8/22/13	6.68	58.56
							6/25/14	5.32	59.92
							9/4/14	5.51	59.73
							Well Decommissioned September 2014		
PG-1	6/12/13	BHZ-782	65.52	15.0	25.0	2.0	8/21/13	5.95	59.57
							12/12/13	3.42	62.10
							2/4/14	0.55	64.97
							4/17/14	Atresian	---
							6/19/14	1.85	63.67
							9/4/14	4.98	60.54
							Well Decommissioned September 2014		
GL-MW-1	6/5/13	BHU-137	66.02	19.0	15.0	2.0	8/21/13	5.88	60.14
							Well Decommissioned September 2014		
GL-MW-2	8/19/13	BHU-489	68.11	10.0	15.0	2.0	8/21/13	13.01	64.10
							9/4/14	10.38	57.73
							Well Decommissioned September 2014		
GL-MW-3	8/19/13	BHU-490	68.54	9.5	14.5	2.0	8/21/13	9.72	58.82
							12/12/13	8.02	60.52
							2/4/14	7.63	60.91
							4/17/14	7.21	61.33
							6/24/14	8.29	60.25
							9/4/14	9.02	59.52
Well Decommissioned September 2014									

**TABLE 1**

**Groundwater Elevation Measurements  
 Gilman Square  
 615 NW Gilman Blvd, Issaquah, WA**

Location Designation	Well Installation Date	Ecology Well Tag Number	Elevation Top of PVC Casing (ft.)*	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
<b>GL-MW-4</b>	8/19/13	BHU-491	65.39	4.0	9.0	1.0	8/21/13	6.21	59.18
							12/12/13	4.10	61.29
							2/4/14	4.02	61.37
							6/19/14	4.01	61.38
							Well Decommissioned July 2014		
<b>GL-MW-5</b>	12/11/13	BIC-996	64.26	3.0	13.0	2.0	12/12/13	4.15	60.11
							2/4/14	3.69	60.60
							4/17/14	3.01	61.25
							6/19/14	4.13	60.13
							9/4/14	5.00	59.26
Well Decommissioned September 2014									
<b>GL-MW-6</b>	12/11/13	BIC-997	64.30	4.0	9.0	2.0	12/12/13	3.46	60.84
							2/4/14	2.91	61.39
							4/17/14	2.92	61.38
							6/25/14	3.50	60.80
							9/4/14	3.94	60.36
Well Decommissioned September 2014									
<b>GL-MW-7</b>	12/12/13	BIC-998	65.57	2.0	12.0	1.0	12/12/13	4.55	61.02
							2/4/14	4.40	61.17
							4/17/14	3.95	61.62
							6/19/14	4.55	61.02
Well Decommissioned July 2014									
<b>GL-MW-8</b>	1/23/14	BHV-489	66.20	6.0	11.0	1.0	1/24/14	5.67	60.53
							2/4/14	5.59	60.61
							4/17/14	5.50	60.70
							6/25/14	6.20	60.00
							9/4/14	6.16	60.04
Well Decommissioned September 2014									

**TABLE 1**

**Groundwater Elevation Measurements  
Gilman Square  
615 NW Gilman Blvd, Issaquah, WA**

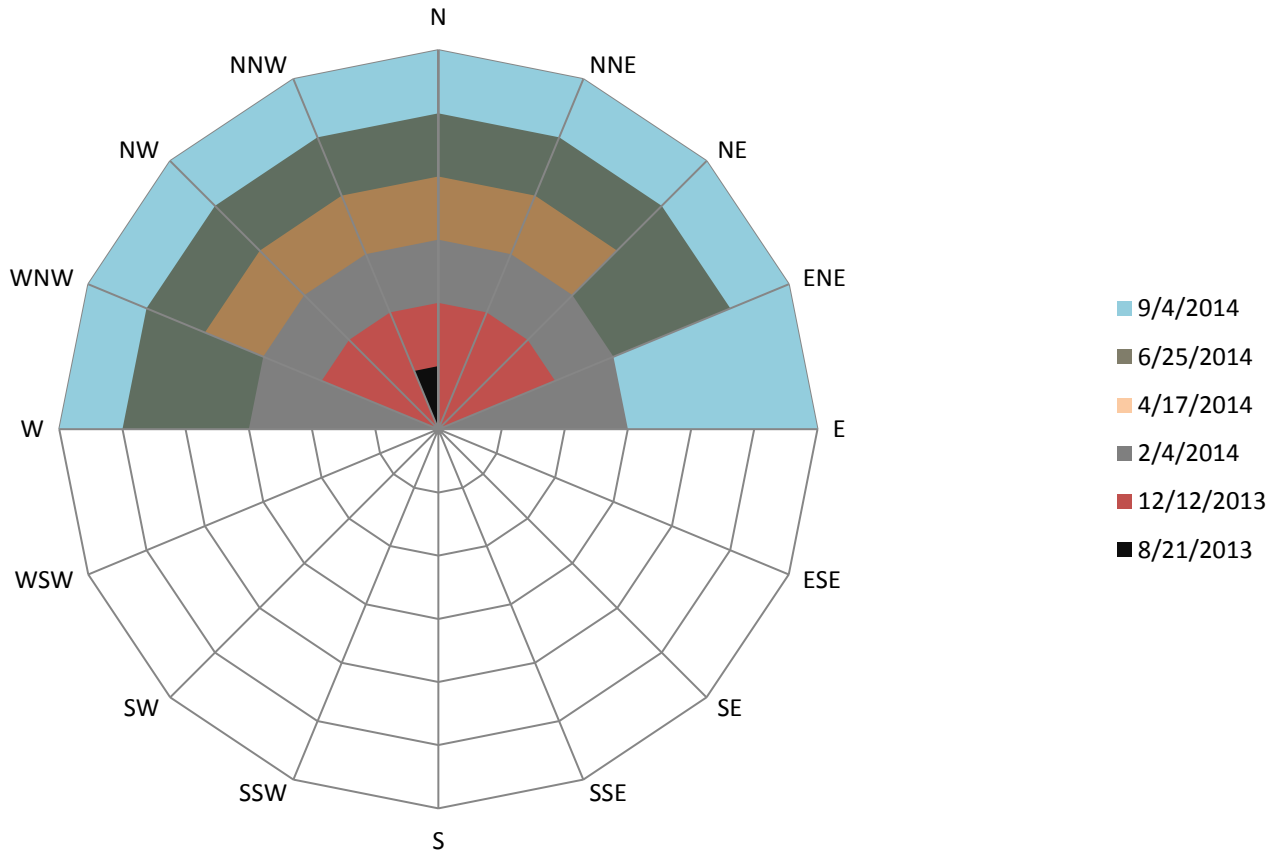
Location Designation	Well Installation Date	Ecology Well Tag Number	Elevation Top of PVC Casing (ft.)*	Depth to Top of Screen (ft.)	Depth to Bottom of Screen (ft.)	Well Diameter (in.)	Date Measured	Depth to Water (ft.)	Calculated Elevations (ft.)
GL-MW-9	1/23/14	BHV-490	67.13	7.0	12.0	1.0	1/24/14	7.02	60.11
							2/4/14	6.92	60.21
							4/17/14	6.83	60.30
							6/25/14	7.34	59.79
							9/4/14	7.15	59.98
Well Decommissioned September 2014									
GL-MW-10	1/23/14	BHV-491	66.39	7.0	13.0	1.0	1/24/14	6.25	60.14
							2/4/14	6.15	60.24
							4/17/14	6.05	60.34
							6/25/14	6.54	59.85
							9/4/14	6.48	59.91
Well Decommissioned September 2014									
GL-MW-11	6/24/15	BIK-977	97.86**	3.0	13.0	2.0	1/26/17	7.60	90.26
							4/26/17	7.62	90.24
							7/17/17	8.67	89.19
GL-MW-12	6/24/15	BIK-978	98.66**	4.0	14.0	2.0	1/26/17	9.42	89.24
							4/26/17	7.59	91.07
							7/17/17	9.54	89.12
GL-MW-13	6/24/15	BIK-979	95.40**	6.0	11.0	2.0	1/26/17	4.41	90.99
							4/26/17	3.71	91.69
							7/17/17	5.91	89.49

**Notes:**

\* Elevations based on Encompass Engineering & Surveying Boundary/Topography Survey (12/10/2013)

\*\* Elevations based on an Arbitrary Datum

# Graph 1: Historical Groundwater Flow Direction Gilman Square 615 NW Gilman Blvd, Issaquah, WA



**TABLE 2**  
**Pre-Remedial Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic	Cadmium	Total Chromium	Hexavalent Chromium	Lead	Mercury	Tetrachloroethylene (PCE)	Naphthalene	VOCs	
units in mg/kg				NWTPH-HCID			BTEX, EPA 8260				MTCA 5 Metals, EPA 6020, 7196, and 7471				EPA 8260					
GL-B-1	6/4/2013	GL-B-1-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-1-8'	8	nd	nd	nd	nd	nd	nd	nd	18.4	nd	32.4*	---	1.74	nd	nd	nd	nd	
		GL-B-1-10'	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-2	6/4/2013	GL-B-2-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-2-8'	8	nd	nd	193	nd	nd	nd	nd	3.83	nd	30.6*	---	21.3	nd	nd	nd	nd	
GL-B-3	6/4/2013	GL-B-3-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-3-8'	8	nd	nd	nd	nd	nd	nd	nd	4.44	nd	47.2*	nd	3.37	nd	nd	nd	nd	
		GL-B-3-10'	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-4	6/4/2013	GL-B-4-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-4-8'	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-4-9'	9	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
GL-B-5	6/4/2013	GL-B-5-3'	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-5-5'	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-5-10'	10	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---	---	
GL-B-6	6/4/2013	GL-B-6-8'	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-6-10'	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-7	6/4/2013	GL-B-7-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	0.383 (H)	nd	nd	
GL-B-8	6/4/2013	GL-B-8-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	---	
PG-1	6/12/2013	PG-B-1-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		PG-B-1-8	8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		PG-B-1-11	11	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		PG-B-1-20	20	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
PG-2	6/12/2013	PG-B-2-5	5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		PG-B-2-6.5	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		PG-B-2-8	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		PG-B-2-14	14	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GL-B-9	7/22/2013	GL-B-9-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-9-6'	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		GL-B-9-7'	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-9-9'	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
GL-B-10	7/22/2013	GL-B-10-3'	3	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	0.132	nd	nd	
		GL-B-10-5'	5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	0.0315	nd	nd	
		GL-B-10-6'	6	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	

**TABLE 2**  
**Pre-Remedial Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic	Cadmium	Total Chromium	Hexavalent Chromium	Lead	Mercury	Tetrachloroethylene (PCE)	Naphthalene	VOCs	
units in mg/kg				NWTPH-HCID			BTEX, EPA 8260				MTCA 5 Metals, EPA 6020, 7196, and 7471					EPA 8260				
GL-B-11	7/22/2013	GL-B-11-2'	2	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-11-3'	3	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-11-6'	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-11-7.5'	7.5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-11-9'	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
GL-B-12	7/22/2013	GL-B-12		---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
GL-B-13	8/19/2013	GL-B-13-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-13-8'	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-13-12'	12	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-13-16'	16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-14	8/19/2013	GL-B-14-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-14-8'	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-14-12'	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-14-13'	13	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-14-16'	16	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
GL-B-15	8/19/2013	GL-B-15-5'	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-15-8'	8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-15-10'	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GL-B-16	12/11/2013	GL-B-16-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-16-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-16-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	0.0691	nd
		GL-B-16-10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-16-12	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GL-B-17	12/11/2013	GL-B-17-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-17-7	7	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-17-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-17-11	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
GL-B-18	12/11/2013	GL-B-18-10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
GL-B-19	12/11/2013	GL-B-19-5	5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		GL-B-19-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
GL-B-20	12/11/2013	GL-B-20-5	5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		GL-B-20-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		GL-B-20-8	8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
GL-B-21	12/11/2013	GL-B-21-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-21-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	
		GL-B-21-8	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-21-10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

**TABLE 2**  
**Pre-Remedial Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic	Cadmium	Total Chromium	Hexavalent Chromium	Lead	Mercury	Tetrachloroethylene (PCE)	Naphthalene	VOCs	
units in mg/kg				NWTPH-HCID			BTEX, EPA 8260				MTCA 5 Metals, EPA 6020, 7196, and 7471					EPA 8260				
GL-B-22	12/12/2013	GL-B-22-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-22-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-22-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-22-10	10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-22-12	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-23	12/12/2013	GL-B-23-3	3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-23-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-23-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
GL-B-24	12/12/2013	GL-B-24-6	6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-24-7	7	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-24-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
GL-B-25	1/24/2013	GL-B-25-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-25-5	5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-25-8	8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-25-11	11	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-26	1/24/2013	GL-B-26-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-26-8	8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-26-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-25-12	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-27	1/24/2013	GL-B-27-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-27-8	8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-27-9	9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
		GL-B-27-12	12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-27-13	13	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	nd	nd	nd
GL-B-28	4/16/2014	GL-B-28-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-28-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-28-7	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
GL-B-29	4/16/2014	GL-B-29-4	4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
		GL-B-29-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-29-7	7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
		GL-B-29-7.5	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-29-8.5	8.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

**TABLE 2**  
**Pre-Remedial Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Arsenic	Cadmium	Total Chromium	Hexavalent Chromium	Lead	Mercury	Tetrachloroethylene (PCE)	Naphthalene	VOCs
<b>units in mg/kg</b>				NWTPH-HCID			BTEX, EPA 8260				MTCA 5 Metals, EPA 6020, 7196, and 7471					EPA 8260			
<b>GL-B-30</b>	4/16/2014	GL-B-30-6	6	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-30-7.5	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>GL-B-31</b>	4/16/2014	GL-B-31-6	6	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-31-7.5	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>GL-B-32</b>	4/16/2014	GL-B-32-5	5	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	---	nd
		GL-B-32-6	6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>PG-TP-1</b>	4/22/2014	PG-TP-1-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd
		PG-TP-1-6.5'	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd
<b>PG-TP-2</b>	4/22/2014	PG-TP-2-4'	4	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd
		PG-TP-2-6.5'	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd
<b>MTCA Cleanup Level (1)</b>				100(a)/30(b)	2,000	2,000	0.03	6	7	9	20	2	N/A	19	250	2	0.05	5	various

- Notes:** Refer to site diagram(s) for sampling locations.
- (1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.  
Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.
  - (a) Soil Cleanup Level For Gasoline With No Detectable Benzene In The Soil.
  - (b) Soil Cleanup Level For Gasoline With Detectable Benzene In The Soil.
  - N/A Method A and B Cleanup Levels do not exist for compound.
  - \* Sample GL-B-3-8 was analyzed for Hexavalent Chromium and is representative for Chromium concentrations.
  - (H) Holding times for preparation or analysis was exceeded.
  - 
  - nd Not detected at laboratory reporting limit
  - 4.44** Bold Number(s) Indicates Contaminant Detected.
  - 0.383** Bold Number(s) and Yellow Highlight Indicates Contaminant Detected Above Applicable Cleanup Level.

**TABLE 3**  
**Pre-Remedial Groundwater Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Total Arsenic	Dissolved Arsenic	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Tetrachloroethene (PCE)	Chloromethane	Vinyl Chloride	cis-1,2-Dichloroethene
units in µg/L			NWTPH-Gx	NWTPH-Dx/Dx Ext.	EPA 8260				MTCA 5 Metals, EPA 200.8 and 245.1					EPA 8260***					
<b>Previously Installed Wells</b>																			
<b>GS-MW-1</b>	6/5/2013	GS-MW-1	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/12/2013	GS-MW-1	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
<b>GS-MW-2</b>	6/5/2013	GS-MW-2	nd	nd	nd	nd	nd	nd	nd	30.0	4.71	nd	0.939	1.14	nd	nd	nd	nd	nd
<b>G-Logics/PanGEO Wells</b>																			
<b>PG-1</b>	6/14/2013	PG-MW-1	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	8/20/2013	PG-1	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	12/12/2013	PG-1	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	4/17/2014	PG-1-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-1</b>	6/5/2013	GL-MW-1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
<b>GL-MW-2</b>	8/21/2013	GL-MW-2	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-3</b>	8/20/2013	GL-MW-3	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	12/12/2013	GL-MW-3	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	12/12/2013	GL-MW-S (dup)	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	4/17/2014	GL-MW-3-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-4</b>	8/20/2013	GL-MW-4	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	4.83	nd
	12/12/2013	GL-MW-4	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	3.72	nd
<b>GL-MW-5</b>	12/12/2013	GL-MW-5	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-6</b>	12/12/2013	GL-MW-6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	0.650	1.11
	12/24/2013	GL-MW-6	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	0.620	nd
	12/24/2013	GL-MW-H (dup)	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	0.640	nd
	4/17/2014	GL-MW-6-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-7</b>	12/12/2013	GL-MW-7	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	4/17/2014	GL-MW-7-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-8</b>	1/25/2014	GL-MW-8	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	1/25/2014	GL-MW-S	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/17/2014	GL-MW-8-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-9</b>	1/25/2014	GL-MW-9	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	4/17/2014	GL-MW-9-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
<b>GL-MW-10</b>	1/25/2014	GL-MW-10	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
	4/17/2014	GL-MW-10-GW	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd

**TABLE 3**  
**Pre-Remedial Groundwater Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	Total Arsenic	Dissolved Arsenic	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Tetrachloroethene (PCE)	Chloromethane	Vinyl Chloride	cis-1,2-Dichloroethene
units in µg/L			NWTPH-Gx	NWTPH-Dx/Dx Ext.	EPA 8260				MTCA 5 Metals, EPA 200.8 and 245.1					EPA 8260***					
<b>G-Logics Grab-Groundwater Samples</b>																			
GL-B-11	7/22/2013	GL-B-11-GW	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	3.13	1.15	1.27
GL-B-16	12/11/2013	GL-B-16	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	0.500	nd
GL-B-18	12/11/2013	GL-B-18	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-20	12/11/2013	GL-B-20	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-21	12/11/2013	GL-B-21	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-23	12/12/2013	GL-B-23	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-24	12/12/2013	GL-B-24	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-28	4/16/2014	GL-B-28	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-29	4/16/2014	GL-B-29	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-30	4/16/2014	GL-B-30	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-31	4/16/2014	GL-B-31	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
GL-B-32	4/16/2014	GL-B-32	---	---	---	---	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd
PG-TP-1	4/22/2014	PG-TP-1-GW	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
PG-TP-2	4/22/2014	PG-TP-2-GW	---	---	---	nd	nd	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
<b>Surface Water Sample*</b>																			
GL-B-12	7/22/2013	GL-B-12-GW	---	---	---	nd	4.24*	nd	nd	---	---	---	---	---	---	nd	nd	nd	nd
<b>MTCA Cleanup Level (1)</b>			1,000(a)/800(b)	500	500	5	1,000	700	1,000	5	5	5	50	15	2	5	**	0.2	16

Notes: Refer to site diagram(s) for sampling locations.

(1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.

Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

(a) Groundwater Cleanup Level for Gasoline with no detectable benzene in the groundwater.

(b) Groundwater Cleanup Level for Gasoline with detectable benzene in the groundwater.

dup Blind Field Duplicate for QA/QC

--- Not Analyzed

nd Not detected at laboratory reporting limit

4.71 Bold Number(s) Indicates Contaminant Detected.

160 Bold Number(s) and Shading Indicates Concentration Exceeds MTCA Cleanup Level.

\* Groundwater Cleanup Levels do not apply to Surface water

\*\* Not researched, no available data

\*\*\* Other 8260 constituents were analyzed and were not detected

**TABLE 4**  
**Dry-Cleaner Area, Remedial Excavation Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)*	Tetrachloroethylene (PCE)		Other VOCs	
					units in mg/kg			
North Sidewall	9/22/2014	NSW-1-4'	4	60	nd	nd	nd	nd
	9/22/2014	NSW-2-3'	3	61	nd	nd	nd	nd
	9/23/2014	NSW-3-5'	5	59	nd	nd	nd	nd
	9/22/2014	NSW-4-2'	2	62	nd	nd	nd	nd
	9/22/2014	NSW-5-3'	3	61	nd	nd	nd	nd
	10/10/2014	NSW-6-6'	6	58	nd	nd	nd	nd
	10/10/2014	NSW-7-6'	6	58	nd	nd	nd	nd
West Sidewall	9/22/2014	WSW-1-4'**	4	60	<b>0.022</b>	nd	nd	nd
	9/22/2014	WSW-2-4'**	4	60	<b>0.082</b>	nd	nd	nd
	9/22/2014	WSW-3-4.5'	4.5	59.5	nd	nd	nd	nd
	9/22/2014	WSW-4-5'**	5	59	<b>0.059</b>	nd	nd	nd
	9/23/2014	WSW-5-5'	5	59	nd	nd	nd	nd
	9/23/2014	WSW-5-5' Dup	5	59	nd	nd	nd	nd
	9/23/2014	WSW-6-5.5'	5.5	58.5	nd	nd	nd	nd
	9/23/2014	WSW-7-4'	4	60	nd	nd	nd	nd
South Sidewall	9/23/2014	SSW-1-4.5'	4.5	59.5	nd	nd	nd	nd
	9/23/2014	SSW-2-2.5'	2.5	61.5	nd	nd	nd	nd
	9/23/2014	SSW-3-5'	5	59	nd	nd	nd	nd
	9/23/2014	SSW-4-5'	5	59	nd	nd	nd	nd
East Sidewall	9/22/2014	ESW-1-4'	4	60	nd	nd	nd	nd
	9/22/2014	ESW-2-3'	3	61	nd	nd	nd	nd
	9/23/2014	ESW-3-4'	4	60	nd	nd	nd	nd
Bottom	9/22/2014	B-1-7'	7	57	nd	nd	nd	nd
	9/22/2014	B-2-6'	6	58	nd	nd	nd	nd
	9/23/2014	B-3-6'	6	58	nd	nd	nd	nd
	9/23/2014	B-4-6'	6	58	nd	nd	nd	nd
	9/23/2014	B-5-6'	6	58	nd	nd	nd	nd
	9/23/2014	B-6-6'	6	58	nd	nd	nd	nd
	9/23/2014	B-7-6'	6	58	nd	nd	nd	nd
	10/10/2014	B-8-7'	7	57	nd	nd	nd	nd
	10/10/2014	B-9-7'	7	57	nd	nd	nd	nd
<b>MTCA Cleanup Level (1)</b>					0.05	various		

Notes: Refer to site diagram(s) for sampling locations.

(1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.

Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

\* Sample Elevations are approximate above mean-sea level based on contractor survey and project mapping.

\*\* Soil in this area was subsequently removed.

--- Not Analyzed

Dup Field duplicate samples for QA/QC.

nd Not detected at laboratory reporting limit

**0.022** Bold Number(s) Indicates Contaminant Detected.

**0.059** Bold Number(s) and Yellow Highlight Indicates Contaminant Detected Above Applicable Cleanup Level.

B-9-7' Green Shading Indicates Confirmation Sample Location

**TABLE 5**  
**Wastewater Discharge Permit, Water Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Total Arsenic	Total Chromium	Total Lead	Tetrachloroethene (PCE)	Chloromethane	Vinyl Chloride	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Trichloroethene (TCE)	Gasoline Range Organics (benzene present)	Gasoline Range Organics (no detectable benzene)	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes
units in µg/L			EPA 200.8			EPA 8260***													
<b>Baker Tank Water</b>																			
	9/23/2014	Baker Tank 923	---	---	---	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	9/23/2014	Baker Tank 923 Dup	---	---	---	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	9/25/2014	BakerOA1737-092514	<b>2.75</b>	<b>9.30</b>	<b>20.4</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	9/30/2014	BakerOA1736-093014	<b>3.60</b>	<b>6.40</b>	<b>8.26</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	10/2/2014	BakerOA1736-100214	<b>4.07</b>	<b>8.66</b>	<b>16.3</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	10/8/2014	BakerOA1736-100814	<b>4.82</b>	<b>2.28</b>	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	10/15/2014	BakerOA1736-101514	<b>2.94</b>	<b>1.16</b>	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	10/22/2014	BakerOA1736-102214	<b>3.73</b>	<b>2.91</b>	<b>4.32</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	10/29/2014	BakerOA1736-102914	<b>2.88</b>	<b>2.21</b>	<b>7.55</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	11/5/2014	BakerOA1736-110514	<b>4.08</b>	<b>4.27</b>	<b>17.6</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	11/11/2014	BakerOA1736-111114	<b>3.57</b>	<b>5.62</b>	<b>21.2</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	11/20/2014	BakerOA1736-112014	<b>1.45</b>	<b>2.15</b>	<b>1.2</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	2/10/2015	BakerOA1736-021015	---	---	---	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	2/17/2015	BakerOA1736-021715	<b>1.93</b>	<b>2.12</b>	<b>4.46</b>	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	2/23/2015	BakerOA1736-022315	---	---	---	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	3/2/2015	BakerOA1736-030215	---	---	---	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	3/2/2015	BakerEast-030215	---	---	---	nd	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	3/17/2015	BakerOA1736-031715	---	---	---	nd	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	3/23/2015	BakerOA1736-032315	---	---	---	nd	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	3/30/2015	BakerOA1736-033015	---	---	---	nd	---	nd	nd	nd	nd	---	---	---	---	---	---	---	---
	5/7/2015	BT-W-1855EA	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd	nd	nd	nd	nd
	5/7/2015	BT-W-OA1429	---	---	---	---	---	---	---	---	---	nd	nd	nd	nd	nd	nd	nd	nd
<b>King County Discharge Limits</b>			4,000	5,000	4,000	240	**	12.0	2,000	2,000	500	**	**	**	**	70	1,400	1,700	2,200

Notes: Refer to site diagram(s) for sampling locations.  
 --- Not Analyzed  
 nd Not detected at laboratory reporting limit  
**1.09** Bold Number(s) Indicates Contaminant Detected.  
 \*\* Not researched, no available data

**TABLE 6**  
**Remedial-Dewatering System Excavation, Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)*	VOCs
units in mg/kg					
DW-EX-1	11/10/2014	DW-EX-1-62'	2	62	nd
DW-EX-2	11/10/2014	DW-EX-2-60.5'	3.5	60.5	nd
DW-EX-3	11/10/2014	DW-EX-3-61'	3	61	nd
DW-EX-4	11/10/2014	DW-EX-4-58'	6	58	nd
DW-EX-5	11/10/2014	DW-EX-5-58'	6	58	nd
DW-EX-6	11/10/2014	DW-EX-6-61'	3	61	nd
DW-EX-7	11/10/2014	DW-EX-7-58'	6	58	nd
DW-EX-8	11/10/2014	DW-EX-8-59.5'	4.5	59.5	nd
DW-EX-9	11/10/2014	DW-EX-9-59'	5	59	nd
DW-EX-10	11/10/2014	DW-EX-10-57'	7	57	nd
DW-EX-11	11/11/2014	DW-EX-11-56'	8	56	nd
DW-EX-12	11/11/2014	DW-EX-12-56'	8	56	nd
DW-EX-13	11/12/2014	DW-EX-13-56'	8	56	nd
DW-EX-14	11/12/2014	DW-EX-14-56'	8	56	nd
<b>MTCA Cleanup Level (1)</b>					various (2)

Notes: Refer to site diagram(s) for sampling locations.

- (1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007. Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.
- (2) VOCs included in Methods 8260 and 8260C that were not listed were not detected.
- \* Sample Elevations are approximate above mean-sea level based on contractor survey and project mapping.
- Not Analyzed
- nd Not detected at laboratory reporting limit

**TABLE 7**  
**Post-Remedial Excavation, Groundwater Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Vinyl Chloride	1,1-Dichloroethene	trans-1,2-Dichloroethene	cis-1,2-Dichloroethene	Trichloroethene (TCE)	Tetrachloroethene (PCE)	Sulfate	Dissolved Iron	Ferrous Iron (test kit)	Total Iron	Nitrate	Nitrite	Nitrate + Nitrite	Ethene	Ethane	Methane	Total Organic Carbon	pH	Oxidation-Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Conductivity (mS/cm)	
			EPA 8260, µg/L							Geochemical Parameters, mg/L										Water Quality Parameters				
GL-MW-11	6/25/2015	GL-MW-11	0.429	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/2/2015	GL-MW-11	0.568	<1.00	<1.00	1.07	<0.500	<1.00	40.9 D	5,600	---	7,730	4.79 D	<0.500 D	---	---	---	---	7.68	6.62	-51.4	1.48	0.326	
	1/7/2016	GL-MW-11	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	0.0	---	---	---	---	---	---	---	---	5.68	166.0	3.03	0.226	
	6/8/2016	GL-MW-11	<10.0 D	<50.0 D	<50.0 D	<50.0 D	<25.0 D	<50.0 D	4.39 D	---	1.8	---	<0.500 D	<0.500 D	---	<0.00500	<0.00500	0.255 D	636 D	7.40	-150.0	0.00	2.200	
	6/8/2016	GL-MW-99 (dup)	<10.0 D	<50.0 D	<50.0 D	<50.0 D	<25.0 D	<50.0 D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	10/12/2016	GL-MW-11*	<4.08 D	<1.78 D	<2.23 D	<3.05 D	<2.27 D	<1.79 D	16.8 D	---	0.0	---	---	---	<0.153 D	<0.00500	<0.00500	4.35 D	91.5 D	6.98	-127.0	0.68	1.280	
	10/12/2016	GL-MW-A (dup)*	<4.08 D	<1.78 D	<2.23 D	<3.05 D	<2.27 D	<1.79 D	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1/26/2017	GL-MW-11*	<0.817 D	<0.356 D	<0.446 D	<0.609 D	<0.454 D	<0.359 D	9.23 D	---	2.5	---	<1.00 D	<1.00 D	---	<0.00500	<0.00500	4.71 D	60.6 D	6.92	-167.3	0.76	1.294	
	4/26/2017	GL-MW-11	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	7.27	-112.2	1.31	0.806
7/17/2017	GL-MW-11	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	6.96	-121.2	0.97	0.990	
GL-MW-12	6/25/2015	GL-MW-12	0.751	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/2/2015	GL-MW-12	0.378	<1.00	<1.00	<1.00	<0.500	<1.00	40.7 D	6,760	---	9,420	4.74 D	<0.500 D	---	---	---	---	4.95	6.32	6.8	1.16	0.488	
	1/7/2016	GL-MW-12	<0.200	<1.00	<1.00	<1.00	<0.500	1.10	---	---	0.0	---	---	---	---	---	---	---	---	6.30	171.0	4.73	0.373	
	6/8/2016	GL-MW-12	<10.0 D	<50.0 D	<50.0 D	<50.0 D	<25.0 D	<50.0 D	14.2 D	---	1.5	---	<0.500 D	<0.500 D	---	<0.00500	<0.00500	0.324 D	68.6 D	6.96	-132.0	0.00	1.310	
	10/12/2016	GL-MW-12*	<4.08 D	<1.78 D	<2.23 D	<3.05 D	<2.27 D	<1.79 D	105 D	---	4.5	---	---	---	0.558 JD	<0.00500	<0.00500	1.01 D	78.2 D	6.83	-64.0	0.17	1.560	
	1/26/2017	GL-MW-12*	<0.0817	<0.0356	<0.0446	<0.0609	<0.0454	0.447 J	31.6 D	---	0.5	---	<1.00 D	<1.00 D	---	<0.00500	<0.00500	0.516 D	21.1 D	6.94	-73.7	0.68	0.856	
	1/26/2017	GL-MW-Dup*	<0.0817	<0.0356	<0.0446	<0.0609	<0.0454	0.418 J	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	4/26/2017	GL-MW-12	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	6.87	-42.0	0.92	0.910
7/17/2017	GL-MW-12	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	6.58	-82.0	0.86	1.098	
GL-MW-13	6/25/2015	GL-MW-13	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	9/2/2015	Well Damaged, No Sample	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	1/7/2016	Well Damaged, No Sample	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	6/8/2016	GL-MW-13	<10.0 D	<50.0 D	<50.0 D	<50.0 D	<25.0 D	<50.0 D	8.46 D	---	3.0	---	<0.500 D	<0.500 D	---	<0.00500	<0.00500	0.161	459 D	6.99	-88.0	0.00	0.654	
	10/12/2016	GL-MW-13*	<4.08 D	<1.78 D	<2.23 D	<3.05 D	<2.27 D	<1.79 D	10.7 D	---	0.0	---	---	---	<0.0765 D	<0.00500	<0.00500	0.993 D	66.5 D	7.23	-169.3	0.11	0.399	
	1/26/2017	GL-MW-13*	<0.817 D	<0.356 D	<0.446 D	<0.609 D	<0.454 D	<0.359 D	5.88 D	---	0.5	---	<0.500 D	<0.500 D	---	<0.00500	<0.00500	0.163	18.0 D	8.77	-105.0	0.77	0.290	
	4/26/2017	GL-MW-13	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	9.52	-362.2	0.74	0.193
	4/26/2017	GL-MW-DupA	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/2017	GL-MW-13	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	8.02	-233.9	0.89	0.197
7/17/2017	GL-MW-DupA	<0.200	<1.00	<1.00	<1.00	<0.500	<1.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
<b>MTCA Cleanup Level (1)</b>			0.2	400	160	16	5	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**Notes:** Refer to site diagram(s) for sampling locations.

(1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007, Revised 2013. Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

D Dilution Required Due to Matrix

N/A Not Available.

J Analyte detected below Reporting Limit

dup Blind Field Duplicate

<0.200 Not detected above the specified laboratory detection limit.

4.71 Bold Number(s) Indicates Contaminant Detected.

0.429 Bold Number(s) and Shading Indicates Concentration Exceeds MTCA Cleanup Level.

<4.08 Laboratory Detection Limit Exceeds the Applicable MTCA Cleanup Level.

\* Analytical results were reported to the Method Detection Limit (MDL).

**TABLE 8**  
**Tanks 1 to 4 UST Excavation Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample	Sample Number	Sample Depth (ft)	Sample Elevation (ft)*	Gasoline Range Organics		Diesel Range Organics		Heavy Oil Range Organics		Benzene	Toluene	Ethylbenzene	Xylenes	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	MTBE	Lead
units in mg/kg																			
Tank Testpits	4/27/2015	TANKTP-1-5**		5	60	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---
	4/27/2015	TANKTP-1-6**		6	59	nd	nd	nd	---	---	---	---	---	---	---	---	nd	---	2.80
	4/27/2015	TANK4-OB-2**		4	61	nd	nd	nd	---	---	---	---	---	---	---	---	---	---	---
North Sidewall	5/6/2015	NSW-1-5		5	60	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	NSW-3-6**		6	59	47.1	---	---	0.099	0.100	0.062	1.10	---	---	---	---	---	---	---
	5/7/2015	NWC-4-12		12	53	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/7/2015	NSO-11		11	54	nd	---	---	0.021	nd	nd	nd	---	---	---	---	---	---	---
	5/8/2015	NSW-4-9		9	56	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/8/2015	Dup-X (NSW-4-9 Dup)		9	56	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
West Sidewall	5/1/2015	WSW-1-10		8	57	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	WSW-4-5**		5	60	nd	---	---	0.037	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	SO-2-6		6	59	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	SO-4-10**		8	57	nd	---	---	0.033	nd	nd	nd	---	---	---	---	---	---	---
	5/6/2015	ESW-4-SO-6		6	59	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/6/2015	WSW-4-6.5**		6.5	58.5	10.5	---	---	0.083	nd	nd	0.199	---	---	---	---	---	---	---
	5/6/2015	WSW-4-6.5 Dup**		6.5	58.5	10.8	---	---	0.083	nd	nd	0.181	---	---	---	---	---	---	---
	5/7/2015	SWC-4-11		11	54	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---
5/7/2015	SWC-4-11 Dup		11	54	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---	
South Sidewall	5/5/2015	SO-3-6		6	59	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	SO-3-9		9	59	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/6/2015	SSW-4-8		6	59	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/7/2015	SSW-1-6		6	59	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
East Sidewall	5/5/2015	SO-1-6		6	59	nd	nd	nd	0.022	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	ESW-1-8		8	57	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	ESW-2-5**		5	60	17.8	---	---	0.034	nd	nd	nd	---	---	---	---	---	---	---
	5/5/2015	ESW-2-5 Dup**		5	60	30.7	---	---	0.067	nd	nd	0.81	---	---	---	---	---	---	---
	5/6/2015	ESW-2-6**		6	59	nd	---	---	0.034	nd	nd	nd	---	---	---	---	---	---	---
	5/8/2015	ESW-3-9		9	56	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/6/2015	ESW-4-9**		7	58	nd	---	---	0.044	nd	nd	nd	---	---	---	---	---	---	---
	5/7/2015	SEC-8		8	57	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---
	5/7/2015	SEC-10		10	55	nd	---	---	nd	nd	nd	nd	---	---	---	---	---	---	---

**TABLE 8**  
**Tanks 1 to 4 UST Excavation Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample	Sample Number	Sample Depth (ft)	Sample Elevation (ft)*	Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	MTBE	Lead
units in mg/kg																
Bottom	5/1/2015	B-1-11		9	56	20.5	---	---	nd	nd	nd	0.051				
	5/5/2015	B-2-8**		7	58	75.8	---	---	0.240	0.370	0.320	2.43				
	5/5/2015	B-3-8**		7	58	16.5	---	---	0.078	nd	nd	0.26				
	5/5/2015	B-3-10		10	55	nd	---	---	0.028	nd	nd	nd				
	5/5/2015	B-3-14**		9	56	115.0	---	---	0.67	1.17	1.16	5.31				nd
	5/5/2015	B-3-14 Dup**		9	56	---	---	---	---	---	---	---				nd
	5/5/2015	B-3-16**		11	54	25.5	---	---	0.160	0.291	0.189	1.11				
	5/5/2015	B-4-8**		7	58	25.7	---	---	0.47	1.53	1.42	6.09				
	5/6/2015	B-4-11**		9	56	nd	---	---	0.067	nd	nd	nd				
	5/6/2015	B-4-11 Dup**		9	56	nd	---	---	0.065	nd	nd	nd				
	5/6/2015	B-5-11		11	54	nd	---	---	nd	nd	nd	nd				
	5/7/2015	NEC-2-11		11	54	nd	nd	nd	nd	nd	nd	nd				
	5/7/2015	NEC-2-11 Dup		11	54	---	nd	nd	---	---	---	---				
	<b>MTCA Cleanup Level (1)</b>						100(a)/30(b)	2,000	2,000	0.03	7	6	9	0.005	11	6

- Notes:** Refer to site diagram(s) for sampling locations.
- (1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.
  - Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.
  - \* Sample Elevations are approximate above mean-sea level based on contractor survey and project mapping.
  - \*\* Soil in this area was subsequently removed.
  - Dup Field duplicate samples for QA/QC.
  - Not Analyzed
  - nd Not detected at laboratory reporting limit
  - 25.5 Bold Number(s) Indicates Contaminant Detected.
  - 0.065 Bold Number(s) and Yellow Highlight Indicates Contaminant Detected Above Applicable Cleanup Level. Soil in these areas was subsequently removed.
  - B-5-11 Green Shading Indicates Confirmation Sample Location

**TABLE 9**  
**UST-Excavation, Water Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Gasoline Range Organics (benzene present)	Gasoline Range Organics (no detectable benzene)	Benzene	Toluene	Ethylbenzene	Xylenes
units in µg/L								
<b>T1-W-2</b>	5/6/2015	T1-W-2	<b>547</b>	---	<b>3.21</b>	<b>3.07</b>	<b>2.07</b>	<b>10.5</b>
	5/5/2015	T1-W-2 Dup	<b>625</b>	---	<b>3.54</b>	<b>3.52</b>	<b>2.30</b>	<b>11.4</b>
<b>T1-W-8**</b>	5/5/2015	T1-W-8	<b>171</b>	---	<b>2.50</b>	nd	nd	nd
	5/5/2015	T1-W-8 Dup	<b>181</b>	---	<b>2.90</b>	nd	nd	nd
<b>MTCA Cleanup Level (1)</b>			<b>800</b>	<b>1,000</b>	<b>5.00</b>	<b>1,000</b>	<b>700</b>	<b>1,000</b>

Notes: Refer to site diagram(s) for sampling locations.

(1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.

Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

\* VOCs not listed were not detected.

\*\* Analytical report lists samples collected at T1-W-8 as T1-W-6.

Dup Field duplicate samples for QA/QC.

--- Not Analyzed

nd Not detected at laboratory reporting limit

**TABLE 10**  
**Tank 5 UST Excavation, Soil Sample Analyses**  
**Gilman Square**  
**615 NW Gilman Blvd, Issaquah, WA**

Exploration Location	Sample Date	Sample Number	Sample Depth (ft)	Sample Elevation (ft)*	units in mg/kg														
					Gasoline Range Organics	Diesel Range Organics	Heavy Oil Range Organics	Benzene	Toluene	Ethylbenzene	Xylenes	1,2-Dibromoethane (EDB)	1,2-Dichloroethane (EDC)	MTBE	VOCs	Lead	PCBs	PAHs	
<b>Tank 5 Testpit</b>	6/16/2015	TANK5-5'	5	60	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	<b>1.56</b>	nd	nd
<b>North Sidewall</b>	7/31/2015	NSW-5-5'	5	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/31/2015	NSW-5-6'	6	59	nd	nd	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---
<b>West Sidewall</b>	7/31/2015	WSW-5-1'	1	64	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/31/2015	WSW-5-5'	5	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/31/2015	WSW-5-6'	6	59	nd	nd	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---
<b>East Sidewall</b>	7/31/2015	ESW-5-5'	5	60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/31/2015	ESW-5-6'	6	59	---	---	---	---	---	---	---	---	---	---	---	---	<b>8.88</b>	---	nd
<b>Bottom</b>	7/31/2015	F-5-5'	5	60	nd	nd	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---
	7/31/2015	F-5-5 Dup	5	60	nd	nd	nd	nd	nd	nd	nd	nd	nd	---	---	---	---	---	---
	7/31/2015	F-5-6.5'	6.5	58.5	---	---	---	---	---	---	---	---	---	---	---	---	<b>1.99</b>	---	nd
<b>MTCA Cleanup Level (1)</b>					100	2,000	2,000	0.03	7	6	9	0.005	11	6	various	250	various	various	

Notes: Refer to site diagram(s) for sampling locations.

(1) Available Method A Cleanup Levels or Most Conservative Method B Cleanup Levels, MTCA, Amendments adopted in November 2007.

Exceeding Cleanup Levels does not necessarily trigger requirements for Cleanup Actions under MTCA.

\* Sample Elevations are approximate above mean-sea level based on contractor survey and project mapping.

Dup Field duplicate samples for QA/QC.

--- Not Analyzed

nd Not detected at laboratory reporting limit

1.56 Bold Number(s) Indicates Contaminant Detected.

# **APPENDIX A**

**On CD**

# **APPENDIX B**

**From:** [Bret Heath](#)  
**To:** [Stuart Hyde](#)  
**Subject:** RE: Issaquah Water Supply Wells  
**Date:** Monday, October 12, 2015 7:41:51 AM

---

Two wells at 450 NW Gilman Blvd. One at 102', one at 412'.

Two well at 240 NE Gilman Blvd. Both about 100'.

*Bret Heath*

City of Issaquah  
Director  
Public Works Operations  
Emergency Management  
Email: [breth@issaquahwa.gov](mailto:breth@issaquahwa.gov)  
425-837-3475 - Office  
425-837-3479 - Fax  
KD7SAQ

---

**From:** Stuart Hyde [<mailto:StuartH@g-logics.com>]  
**Sent:** Wednesday, October 07, 2015 3:10 PM  
**To:** Bret Heath  
**Subject:** Issaquah Water Supply Wells

Bret,

Figured I would try and email to touch base instead of phone tag. I am working on a cleanup site located at 615 NW Gilman Blvd, the old Gilman Square shopping center to the east of the Safeway/REI shopping center. We have performed the remedial cleanup and are writing the cleanup report for the Department of Ecology. They have asked that I provide information regarding Issaquah's water supply for the report. If you could get me some information regarding the location of the wells and the well depths, that should suffice for my purposes.

Thanks much and please feel free to shoot me an email or try calling my cell phone.

**Regards,**

**Stuart Hyde** | Project Geologist  
Cell: 804-837-5205 | [Stuarth@g-logics.com](mailto:Stuarth@g-logics.com)

**G-Logics, Inc.** | 40 2<sup>nd</sup> Avenue SE | Issaquah, WA 98027-3452  
Office: 425-391-6874 | Fax: 425-313-3074 | [www.G-Logics.com](http://www.G-Logics.com)



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# **APPENDIX C**



REPLY TO  
ATTENTION OF

**DEPARTMENT OF THE ARMY**  
SEATTLE DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 3755  
SEATTLE, WASHINGTON 98124-3755

Regulatory Branch

SEP 3 2014

Lennar Multifamily Communities  
c/o Mr. Thomas Bartholomew  
1191 Second Avenue, Suite 1570  
Seattle, Washington 98101

Reference: NWS-2014-398  
Lennar Multifamily  
Communities, LLC

Dear Sir/Madam:

We have reviewed your application for a Department of the Army permit to fill in a channelized stream and install 440 lineal feet of storm drainage pipe at Issaquah, Washington. Based on the information you provided to us, Nationwide Permit (NWP) 14, *Linear Transportation Projects* (Federal Register February 21, 2012, Vol. 77, No. 34), authorizes your proposal as depicted on the enclosed drawings dated July 14, 2014, provided you implement the *Riparian & Buffer Enhancement Plan* dated August 18, 2014.

In order for this authorization to be valid, you must ensure the work is performed in accordance with the enclosed *NWP 14 Terms and Conditions* and the following special condition:

a. You must implement and abide by the Endangered Species Act (ESA) requirements and/or agreements set forth in the *Technical Memorandum*, dated July 14, 2014, in their entirety. The U.S. Army Corps of Engineers (Corps) made a determination of No Effect for all species based on this document. Failure to comply with the commitments made in this document constitutes non-compliance with the ESA and your Corps permit.

We have reviewed your project pursuant to the requirements of the Endangered Species Act, the Magnuson-Stevens Fishery Conservation and Management Act and the National Historic Preservation Act. We have determined this project complies with the requirements of these laws provided you comply with all of the permit general and special conditions.

The authorized work complies with the Washington State Department of Ecology's (Ecology) Water Quality Certification and the Coastal Zone Management Act requirements for this NWP. No further coordination with Ecology is required.

We have prepared and enclosed a *Preliminary Jurisdictional Determination* (JD) dated August 27, 2014, which is a written indication that wetlands and waterways within your project area may be waters of the United States. Such waters will be treated as jurisdictional waters of the U.S. for purposes of computation of impact area and compensatory mitigation requirements associated with your permit application. If you believe the Preliminary JD is inaccurate, you may request an Approved JD, which is an official determination regarding the presence or absence of waters of the United States. If one is requested, please be aware that we may require the submittal of additional information to complete an approved JD and work authorized in this letter may not occur until the approved JD has been finalized.

Our verification of this NWP authorization is valid until March 18, 2017, unless the NWP is modified, reissued, or revoked prior to that date. If the authorized work has not been completed by that date and you have commenced or are under contract to commence this activity before March 18, 2017, you will have until March 18, 2018, to complete the activity under the enclosed terms and conditions of this NWP. Failure to comply with all terms and conditions of this NWP verification invalidates this authorization and could result in a violation of Section 404 of the Clean Water Act. You must also obtain all local, State, and other Federal permits that apply to this project.

Upon completing the authorized work, you must fill out and return the enclosed *Certificate of Compliance with Department of the Army Permit* form. Thank you for your cooperation during the permitting process. We are interested in your experience with our Regulatory Program and encourage you to complete a customer service survey form. This form and information about our program is available on our website at [www.nws.usace.army.mil](http://www.nws.usace.army.mil) select "Regulatory Branch, Permit Information" and then "Contact Us." If you have any questions, please contact me at [susan.m.powell@usace.army.mil](mailto:susan.m.powell@usace.army.mil) or (206) 764-5527.

Sincerely,



Susan Powell, Project Manager  
Regulatory Branch

Enclosures

# **APPENDIX D**



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190 160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

May 30, 2014

Tom Bartholomew  
Lennar Multifamily Investors  
1325 Fourth Ave, Suite 1700  
Seattle, WA 98101

Re: Request for Contained-Out Determination, Gilman Square  
Site Address: 675 NW Gilman Boulevard, Issaquah, WA 98027 (address of  
Former drycleaner)

References: (a) Letter, Stuart Hyde (G-Logics) to D. Yasuda (Ecology), dated April 29, 2014,  
Request for Contained Out Determination, 675 NW Gilman Boulevard, Issaquah, WA  
98027 (address of former drycleaner)  
(b) Electronic Mail, Stuart Hyde (G-Logics) to D. Yasuda (Ecology), dated May 13,  
2014, Follow Up Information for Contained Out Determination, 675 NW Gilman  
Boulevard, Issaquah, WA 98027 (address of former drycleaner)

Dear Mr. Bartholomew:

The Washington State Department of Ecology (Ecology) received a contained-out determination request (references a and b) from your environmental consultant, G-Logics on April 29, 2014, for soil contaminated with F002<sup>1</sup> listed waste constituents to be generated during site cleanup activities at 675 NW Gilman Boulevard, Issaquah, WA 98027 (address of former drycleaner).

Ecology received this information to determine if the contaminated soils, once excavated, may be exempt from management as dangerous wastes under the "Contained-In Policy." Based on the information provided and reviewed to date, Ecology's regulatory determination is as follows:

The approximately **600 tons** of F002 (PCE) listed waste contaminated soils represented by soil samples GL-B-9, -10, and -11, to be generated during site excavation activities at the Site (attached Figure 6) and excavated to a depth of 6.0 feet below grade, do not require management as dangerous wastes and Ecology will not require disposal of these contaminated soils as F002 (PCE) listed wastes at a RCRA permitted dangerous waste treatment, storage and disposal (TSD) facility, provided all of the conditions below are implemented.

Ecology suspects that PCE contaminated soils outside of the area delineated by GL-B9 through -11 exist. Adequate soil sample analytical data is required for soils from this outside suspected area before Ecology can determine if a contained out determination is justified. Further soil sampling in those outside suspected contaminated areas and chemical analysis with lower reporting limits<sup>2</sup> is required. Furthermore, Ecology understands that your consultants have requested a contained out determination for PCE soils below the water table at GL-B-19. Ecology does not understand the rationale for wanting to excavate these

---

<sup>1</sup> Perchloroethylene (PCE)

<sup>2</sup> Ecology notes that most Ecology accredited laboratories are able to achieve reporting limits of 1.0 µg/kg for PCE and daughter products. 

PCE contaminated soils since the replacement soils will shortly become contaminated with PCE due to contact with upgradient PCE contaminated groundwater. Those PCE soils are not approved under this contained out determination.

For the approximately **600 tons** of F002 listed waste contaminated soils (attached Figure 6), Ecology understands that these soils do not designate under federal characteristics (Washington Administrative Code [WAC] 173-303-090) or State-only criteria (WAC 173-303-100). For these **600 tons** of F002 listed waste contaminated soils, you or your consultant shall comply with the following requirements:

- a. Ensure no standing water is present within any container holding the PCE contaminated soil. All water must be removed to the maximum extent possible from each of these containers and managed as F002 listed dangerous wastes without exception. The contaminated groundwater or infiltrated surface water should be removed from the contaminated soils prior to shipment to the landfill. Contaminated water cannot be disposed of into a RCRA Subtitle D (or C) landfill directly.
- b. This Ecology approval letter does not pertain to any decontamination water or groundwater.
- c. Deliver these contaminated soils directly to a permitted RCRA Subtitle D landfill (outside Washington State) such as the Columbia Ridge Solid Waste Landfill in Arlington, Oregon OR a Washington State solid waste landfill permitted under Chapter 173-351 WAC such as the Roosevelt Regional Landfill.
- d. Do not consolidate these contaminated soils with other soils that do not pertain to this contained out determination.
- e. Do not offload these contaminated soils at any temporary staging/transfer/reloading area.
- f. These contaminated soils shall not be used as fill at the Site or any other Property.
- g. Plastic line the containers or delivery trucks for direct delivery to the solid waste landfill.
- h. Cover all excavated soils and take adequate measures to prevent spills and dispersion due to wind or rain erosion.
- i. Take measures to prevent unauthorized contact with these soils at all times.
- j. Provide instructions to the landfill operator that these soils are not to be used for daily, intermediate, or final cover.
- k. Provide copies of all soil analytical data to the landfill operator, upon request.
- l. Send copies of all signed solid waste landfill receipt records for these contaminated soils to Ecology, attention of Dean Yasuda, within 15 days of your receipt. Also indicate the total volume/weight of all contaminated soils disposed of under the Ecology approved contained-in determination, and indicate if this total amount is above, below or equal to the total amount approved by this Ecology letter. This is an important verification step for you and your environmental consultant to follow in order for this Ecology decision to be valid.

- m. Do not send these contaminated soils to any incinerator, thermal desorption unit, or recycling facility unless that facility is a RCRA Subtitle C permitted hazardous waste TSD facility.
- n. Dispose of the **600 tons** of PCE-contaminated soils by August 30, 2014. This contained-out determination for these contaminated soils is no longer valid after August 30, 2014. After this date, you are required to manage these contaminated soils as dangerous wastes.
- o. This written decision for the contaminated soils does not apply to any other area or other media. Local agencies have the authority to impose additional requirements on this waste stream.
- p. Notify Ecology immediately once you are aware that to-be-excavated soils under this letter will exceed the permitted amount. Ecology needs to make sure that the additional soil qualifies for this contained out determination.


This letter only addresses the procedures for disposal of the above described PCE contaminated soils generated at the Site in accordance with the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC). This letter is not an Ecology approval for dangerous waste designation process or disposal of soils that may be generated in the future or already excavated outside the locations for which this contained out approval letter applies. Designation (as dangerous wastes or non-dangerous wastes) and proper disposal of those "outside" soils is a responsibility of the generator of excavated soils.

This letter is not a No Further Action (NFA) letter and not written approval for any cleanup action plan you may have submitted. Regulatory decisions regarding the cleanup action, applicable soil and groundwater cleanup levels and any other cleanup issues must comply with the requirements under Ecology Model Toxics Control Act (MTCA).

If you fail to comply with the terms of this letter, Ecology may issue an administrative order and/or penalty as provided by the Revised Code of Washington (RCW) Sections 70.105.080 and/or .095 (Hazardous Waste Management Act).

If you have any questions concerning this letter, please feel free to contact me at (425) 649-7264 or by email at [dya461@ecy.wa.gov](mailto:dya461@ecy.wa.gov).

Sincerely,

  
Dean Yasuda, PE

Hazardous Waste and Toxics Reduction Program

By certified mail: 7012 3460 0000 3272 4656

cc: Stuart Hyde, G-Logics  
Bill Lasby, Seattle-King County Public Health ([Bill.Lasby@kingcounty.gov](mailto:Bill.Lasby@kingcounty.gov))  
Dave Christensen, Seattle-King County Public Health  
([david.christensen@kingcounty.gov](mailto:david.christensen@kingcounty.gov))  
Lisa Brown, Ecology-ERO, Greg Caron, Ecology-CRO, Samuel Iwenofu, Ecology-SWRO  
Byung Maeng, Donna Musa, Louise Bardy, Glynis Carrosino, Ecology-NWRO  
HZW 5.4.1 CS No. 12286 FS No. 15541

**Project:** Gilman Square, Issaquah, WA

**Job Number:** 01-0868-J

Date	Products		
	Truck #	Ticket #	Tonnage
09/22/14	45	236655	34.12
09/22/14	45	242556	32.37
09/22/14	45	236611	30.22
09/22/14	45	236603	36.4
09/22/14	45	236653	22.08
09/22/14	70	236605	26.19
09/22/14	70	236606	27.27
09/22/14	70	236614	30.22
09/22/14	70	236608	21.17
09/22/14	70	236642	24.05
09/23/14	70	238762	23.2
09/23/14	45	238761	32.79
09/23/14	45	236643	29.81
09/23/14	45	236644	30.68
09/23/14	70	238753	32.55
09/23/14	70	236657	30.03
10/14/14	331	321163	27.47
<b>Total</b>			<b>490.62</b>

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 236655

108000	GROSS
40,300	TARE
	NET
	34.12

ACCT # 16447 JOB # 11722 DATE: 9/22 2014

CONT # TOLL468481

CITY \_\_\_\_\_

67

CUSTOMER # SANTA MARIA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 242556

101240	GROSS
36500	TARE
	NET

ACCT # 10385 JOB # 11734  
CONT # RBSU200375  
CITY ISSAQUAH

DATE: 9-22 20

32.37

CUSTOMER # SANTA MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 236611

102880	GROSS
42440	TARE
	NET

ACCT # 18147 JOB # 11722  
CONT # TOW457601  
CITY \_\_\_\_\_

DATE: 9/22 20

30.22

CUSTOMER # SANTA MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236603

114600	GROSS
	TARE
41800	NET

ACCT #

16447

JOB #

TB 11722

DATE: 9/22/14 20

CONT #

RBSU 200326

CITY

Issaquah

57

22.05  
36.4

CUSTOMER #

Santa MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236653

87300	GROSS
43200	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE: 9/22 20

CONT #

AWS 200076

CITY

67

22.05

CUSTOMER #

Santa MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # \_\_\_\_\_

70

236605

9380	GROSS
4070	TARE
	NET

ACCT # 10385 JOB # TB 11722 DATE: 9/22 20\_\_  
 CONT # AWSU 200068  
 CITY \_\_\_\_\_

256.19

57  
*[Signature]*

CUSTOMER # SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # \_\_\_\_\_

70 JL

236606

92760	GROSS
38220	TARE
	NET

ACCT # 16447 JOB # TB 11722 DATE: 9/22 20\_\_  
~~10385~~ H784  
 CONT # RBSU 200404  
 CITY \_\_\_\_\_

27.27

57  
*[Signature]*

CUSTOMER # SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

**RABANCO COMPANY**

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # \_\_\_\_\_

70 JL

236614

98880	GROSS
38440	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22/20

CONT #

TOLU456052

CITY \_\_\_\_\_

67

30.22

CUSTOMER # \_\_\_\_\_

SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

**RABANCO COMPANY**

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # \_\_\_\_\_

75

236608

81300	GROSS
38960	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22/20

CONT #

AWSU200017

CITY \_\_\_\_\_

67

21.17

CUSTOMER # \_\_\_\_\_

Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70

236642

88160  
40060

GROSS
TARE
NET

ACCT # 16447 JOB # TB 11722

DATE: 9/22 2014

CONT # RBSU200051

CITY \_\_\_\_\_

67



CUSTOMER # Sante

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

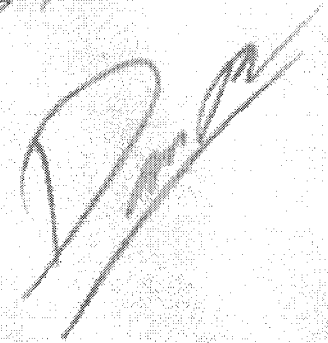
2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 238762

84200	GROSS
37800	TARE
	NET

ACCT # 11447 JOB # 11722 DATE: 9/27 20    
CONT # 89TU420002  
CITY \_\_\_\_\_

67



CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

238761

ACCT #

16147

JOB #

TB  
71722

DATE:

9/29

20

CONT #

TOLU459722

CITY

\_\_\_\_\_

GROSS

108650

TARE

43100

NET

CUSTOMER #

\_\_\_\_\_ SATS MHW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236643

ACCT #

16447

JOB #

7B  
11722

DATE:

9/22<sup>23</sup> 14

CONT #

TOTAL 48794

CITY

65

67

GROSS

102420

TARE

- 72800

NET

29.81

CUSTOMER #

Santa WNW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# PABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

415

236644

103600	GROSS
40240	TARE
	NET
	30.68

ACCT #

16447

JOB #

TB  
11722

DATE:

9/22/14

CONT #

TCU457858

9/23/14

CITY

67

CUSTOMER #

Santa Maria

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 238753

102940	GROSS
378410	TARE
	NET

ACCT # 16447 <sup>TB</sup> JOB # 11722 DATE: 9/23 2014  
 CONT # TRLU 901821  
 CITY \_\_\_\_\_

67  


CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 236657

98520	GROSS
438460	TARE
	NET

ACCT # 16447 <sup>TB</sup> JOB # 11722 DATE: 9/23 2014  
 CONT # TLUHS9386  
 CITY \_\_\_\_\_

67  


CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

Roosevelt Landfill  
 30 Roosevelt Grade Rd  
 Roosevelt Wa, 99356  
 TOWER  
 116447  
 Santa Inc  
 22821 NE Redmond Fall City Rd  
 Redmond, WA 98053  
 TB-11722

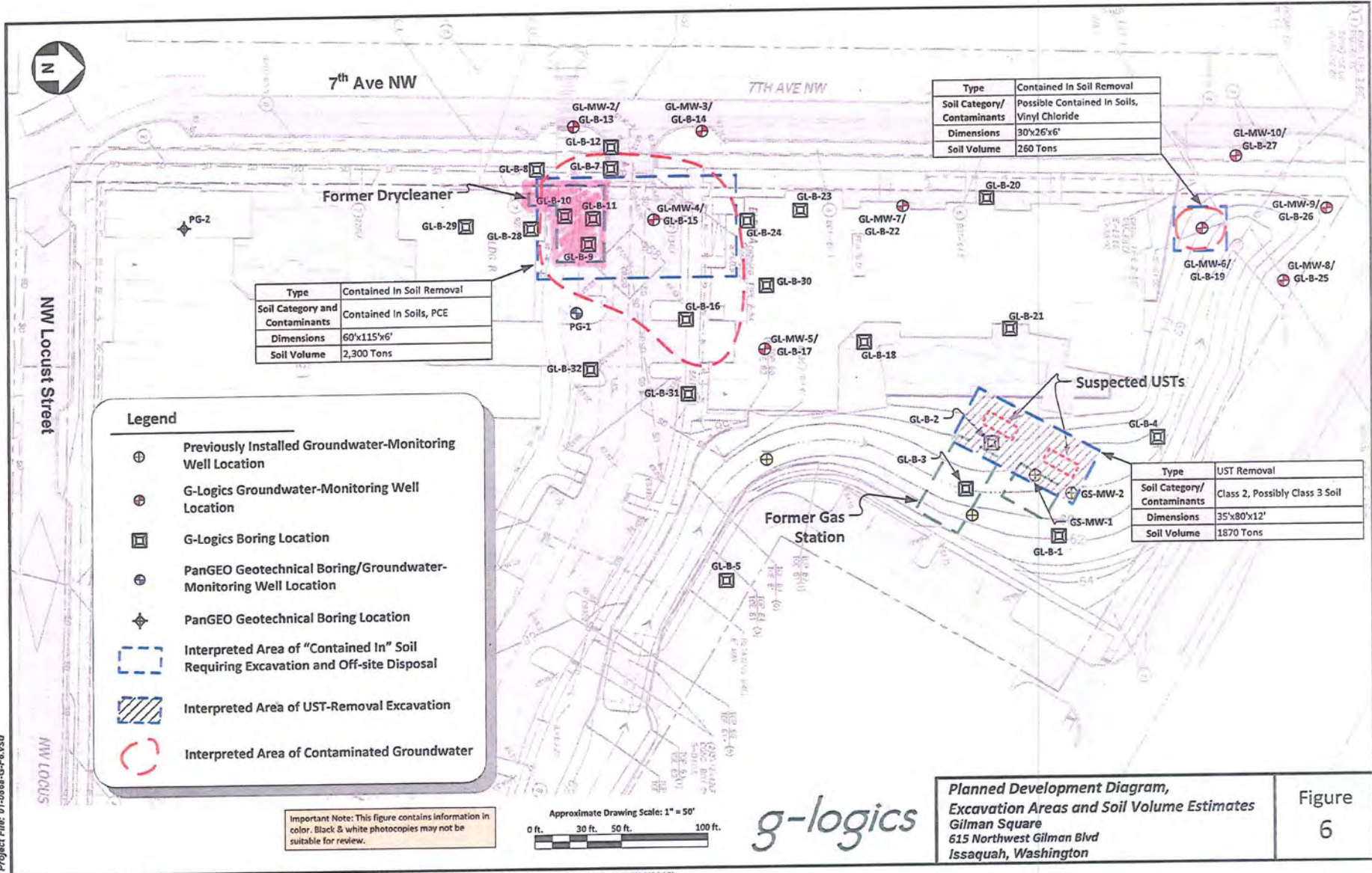
SITE 3A	TICKET# 321163	CELL 239181
WEIGHMASTER Gail H. <i>[Signature]</i>		
DATE/TIME IN 10-14-2014 2:06 pm	DATE/TIME OUT 10-14-2014 2:30 pm	
VEHICLE 6331	CONTAINER RES0200344	
REFERENCE		INVOICE
BILL OF LADING BNSF230122	10/10/2014	0

SCALE IN	GROSS WEIGHT	101,080	NET TONS	27.47	
SCALE OUT	TARE WEIGHT	46,140	NET WEIGHT	54,940	TNBOUND

TY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
28.00	YD	TRACKING QTY				
27.47	TN	Contained in Contaminated S Issaquah				
1.00		CONTAINER/CHASIS RENTAL				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.



PCE SOILS (0-6' bgs) APPROVED FOR CONTAINED OUT DETERMINATION PER CONDITIONS IN ECOLOGY LETTER.

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 238753

102940	GROSS
378410	TARE
	NET

ACCT # 16447 <sup>TB</sup> JOB # 11722 DATE: 9/23 2014  
 CONT # TRLU 901821  
 CITY \_\_\_\_\_

67  


CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 236657

98520	GROSS
438460	TARE
	NET

ACCT # 16447 <sup>TB</sup> JOB # 11722 DATE: 9/23 2014  
 CONT # TRUHS 9386  
 CITY \_\_\_\_\_

67  


CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

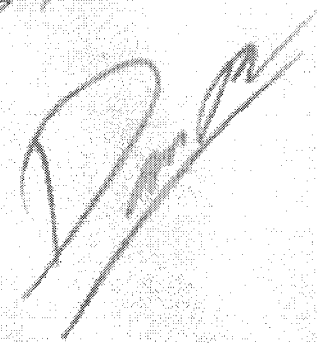
2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70 238762

84200	GROSS
37800	TARE
	NET

ACCT # 11447 JOB # 11722 DATE: 9/27 20    
CONT # 89TU420002  
CITY \_\_\_\_\_

67



CUSTOMER # Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 238761

108650	GROSS
	TARE
43100	NET

ACCT # 16147 JOB # 71722 DATE: 9/29 20    
CONT # TOLU459722  
CITY \_\_\_\_\_

CUSTOMER # \_\_\_\_\_ SATS MAN

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236643

ACCT #

16447

JOB #

7B  
11722

DATE:

9/22<sup>23</sup> 14

CONT #

TOTAL 48794

CITY

65

67

GROSS

102420

TARE

- 72800

NET

29.81

CUSTOMER #

Santa WNW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# PABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

415

236644

103600	GROSS
40240	TARE
	NET
	30.68

ACCT #

16447

JOB #

TB  
11722

DATE:

9/22/14

CONT #

704457858

CITY

67

9/23/14

CUSTOMER #

Santa Maria

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 242556

101240	GROSS
	TARE
36500	NET

ACCT # 10385 JOB # 11734 <sup>TB</sup>  
 CONT # RBSU200375  
 CITY ISSAQUAH

DATE: 9-22 20\_\_

32.37

CUSTOMER # SANTA MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 236611

102880	GROSS
	TARE
42440	NET

ACCT # 18147 JOB # 11722 <sup>TB</sup>  
 CONT # TOW457601  
 CITY \_\_\_\_\_

DATE: 9/22 20\_\_

30.22

CUSTOMER # SANTA MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236603

114600	GROSS
	TARE
41800	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22/14

20

CONT #

RBSU 200326

CITY

Issaquah

57

22.05  
36.4

CUSTOMER #

Santa MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

45

236653

87300	GROSS
43200	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22

20

CONT #

AWS 2 00076

CITY

67

22.05

CUSTOMER #

Santa MAW

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

70

236605

9380	GROSS
4070	TARE
	NET

ACCT # 10385 JOB # TB 11722 DATE: 9/22 20\_\_

CONT # AWSU 200068

CITY \_\_\_\_\_

256.19

57  
*[Signature]*

CUSTOMER # SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

70 JL

236606

92760	GROSS
38220	TARE
	NET

ACCT # 10385 JOB # 16447 TB 11722 H784 DATE: 9/22 20\_\_

CONT # RBSU 200404

CITY \_\_\_\_\_

27.27

57  
*[Signature]*

CUSTOMER # SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

70 JL

236614

98880	GROSS
38440	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22/20

CONT #

TOLU456052

CITY

67

30.22

CUSTOMER #

SANTA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK #

75

236608

81300	GROSS
38960	TARE
	NET

ACCT #

16447

JOB #

TB 11722

DATE:

9/22/20

CONT #

AWSU200017

CITY

67

21.17

CUSTOMER #

Santa

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 70

236642

88160  
40060

GROSS
TARE
NET

ACCT # 16447 JOB # TB 11722

DATE: 9/22 2014

CONT # RBSU200051

CITY \_\_\_\_\_

67



CUSTOMER # Sante

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

# RABANCO COMPANY

2733 3rd AVENUE SOUTH  
SEATTLE, WA 98134  
(206) 623-4080

TRUCK # 45 236655

108000	GROSS
	TARE
40,300	NET
	34.12

ACCT # 16447 JOB # 11722 DATE: 9/22 2014

CONT # TOLL#68481

CITY \_\_\_\_\_

67

CUSTOMER # SANTA MARIA

NOTICE: FACILITIES USED AT CUSTOMER'S RISK.

DISPOSAL RECEIPT

CUSTOMER COPY

Roosevelt Landfill  
 30 Roosevelt Grade Rd  
 Roosevelt Wa, 99356  
 TOWER  
 116447  
 Santa Inc  
 22821 NE Redmond Fall City Rd  
 Redmond, WA 98053  
 TB-11722

SITE 3A	TICKET# 321163	CELL 239181
WEIGHMASTER Gail H. <i>[Signature]</i>		
DATE/TIME IN 10-14-2014 2:06 pm	DATE/TIME OUT 10-14-2014 2:30 pm	
VEHICLE 6331	CONTAINER RES0200344	
REFERENCE		INVOICE
BILL OF LADING BNSF230122		10/10/2014 0

SCALE IN	GROSS WEIGHT	101,080	NET TONS	27.47	
SCALE OUT	TARE WEIGHT	46,140	NET WEIGHT	54,940	TNBOUND

TY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
28.00	YD	TRACKING QTY				
27.47	TN	Contained in Contaminated S Issaquah				
1.00		CONTAINER/CHASIS RENTAL				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

# **APPENDIX E**



## King County

### Wastewater Treatment Division

Industrial Waste Program

Department of Natural Resources and Parks

130 Nickerson Street, Suite 200

Seattle, WA 98109-1658

**206-263-3000** Fax 206-263-3001

TTY Relay: 711

June 16, 2014

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Brad Reisinger  
Lennar Multifamily Communities LLC  
1325 4th Avenue, Suite 1700  
Seattle, WA 98101

Issuance of Wastewater Discharge Authorization No. 939-01 to Lennar Multifamily Communities LLC - 7th at Gilman Construction Project

Dear Mr. Reisinger:

The King County Industrial Waste Program (KCIW) has reviewed your application to discharge construction dewatering to the sewer system from the Lennar Multifamily Communities LLC - 7th at Gilman Construction Project located at 615 NW Gilman Blvd., Issaquah, Washington, and has issued the enclosed Minor Discharge Authorization.

This authorization permits you to discharge limited amounts of industrial wastewater into King County's sewer system in accordance with the effluent limitations and other requirements and conditions set forth in the document and the regulations outlined in King County Code 28.84.060 (enclosed). As long as you maintain compliance with regulations and do not change the nature and volume of your discharge, KCIW will not require you to apply for an industrial wastewater discharge permit, a type of approval that would result in additional requirements and increased fees.

If you propose to increase the volume of your discharge or change the type or quantities of substances discharged, you must contact KCIW at least 60 days before making a change.

King County Code 28.84 authorizes a fee for each Minor Discharge Authorization issued by the King County Department of Natural Resources and Parks. The current fee for issuance of a Minor Discharge Authorization is \$1,000. King County will send you an invoice for this amount.

Brad Reisinger  
June 16, 2014  
Page 2

If at any time you have questions about this discharge authorization or your wastewater discharge, please call me at 206-263-3006 or email me at [todd.gowing@kingcounty.gov](mailto:todd.gowing@kingcounty.gov). You may also wish to visit our program's Internet pages at: [www.kingcounty.gov/industrialwaste](http://www.kingcounty.gov/industrialwaste).

Thank you for helping support our mission to protect public health and enhance the environment.

Sincerely,



Todd Gowing  
Compliance Investigator

Enclosures

cc: Bob Brock, City of Issaquah  
Kristin Painter, King County



**King County**

**MINOR DISCHARGE AUTHORIZATION**

King County Industrial Waste Program  
130 Nickerson Street, Suite 200  
Seattle, WA 98109-1658

**NUMBER 939-01**

for

**Lennar Multifamily Communities LLC - 7th at Gilman  
Construction Project**

**Site address:** 615 NW Gilman Blvd.  
Issaquah, Washington

**Mailing address:** 1325 4th Avenue, Suite 1700  
Seattle, WA 98101

**Phone:** 206-708-2295

**Industry type:** Construction dewatering

**Discharge to:** South Treatment Plant

\*Note: This authorization is valid only for the specific discharges shown below:

**Discharge process:** Wastewater generated by construction dewatering operation

**Pretreatment process:** Gravity settling

**Maximum discharge volume:** 25,000 gallons per day

**Maximum discharge rate:** 200 gallons per minute

**Effective date:** June 25, 2014

**Expiration date:** January 1, 2015

Permission is hereby granted to discharge industrial wastewater from the above-identified facility into the King County sewer system in accordance with the effluent limitations and monitoring requirements set forth in this authorization.

If the industrial user wishes to continue to discharge after the expiration date, an application must be filed for re-issuance of this discharge authorization at least 90 days prior to the expiration date. For information concerning this King County Discharge Authorization please call Industrial Waste Compliance Investigator Todd Gowing at 206-263-3006.

**24-HOUR EMERGENCY NOTIFICATION**

**South Treatment Plant: 206-684-2404**

**Washington State Department of Ecology: 425-649-7000**

**SPECIAL CONDITIONS**

- A. No later than July 15, 2014, the permittee must submit a list of Lennar Multifamily Communities LLC - 7th at Gilman Construction Project and contractor personnel responsible for dewatering activities, including operation and maintenance of the wastewater treatment system and monitoring of the discharge to the sanitary sewer. The list shall include the site contacts' name, title, company, and phone numbers (office and cell).
- B. Discharge to the sanitary sewer shall not begin until KCIW has conducted a preoperative inspection of the pretreatment facilities and has sent written notification (email is sufficient) to the permittee that discharges may begin.
- C. All persons responsible for monitoring the discharge to the sanitary sewer shall review a copy of this authorization.
- D. A copy of this authorization shall be on site at all times for review and reference.
- E. This authorization grants the discharge of limited amounts of wastewater from the following waste streams:
  - 1. Contaminated stormwater runoff
  - 2. Excavation dewatering

Wastes or contaminants from sources other than permitted herein shall not be discharged to the sanitary sewer without prior approval from KCIW.

- F. The discharge shall not cause hydraulic overloading conditions of the sewerage conveyance system. During periods of peak hydraulic loading KCIW and City of Issaquah representatives reserve the authority to request that discharge to the sewer be stopped.
- G. All wastewater shall be collected and treated in accordance with treatment methods approved by KCIW. Wastewater shall not bypass treatment systems. Modifications to wastewater treatment systems shall not occur without prior approval from KCIW.
- H. Totalizing and non-resettable flow meters must be installed on all permitted discharge pipes to the sewer.
- I. An accessible sampling spigot must be installed on the discharge pipe from the last treatment unit of the wastewater treatment system. The sample site shall be representative of all industrial waste streams discharged to the sewer from this site. Each sample site shall be accessible to KCIW representatives when discharge to the sewer is occurring.
- J. The contractor shall implement erosion control best management practices to minimize the amount of solids discharged to the sanitary sewer system. As a minimum precaution, the wastewater must be pumped to an appropriately sized settling tank(s) prior to entering the sewer system.
- K. The permittee shall properly operate and maintain all wastewater treatment units to ensure compliance with established discharge limits. Solids accumulation in tanks used for solids settling shall not exceed 25 percent of the tank's working hydraulic capacity. Each tank's working hydraulic capacity is based on the water column height as measured from the bottom of the tank to either the invert elevation of the tank's outlet pipe (gravity discharges) or discharge pump intake (pumped discharges).

L. Results of all required self-monitoring sampling must be recorded daily. Recorded information for each discharge site must include:

1. Sample date
2. Sample time
3. Sample results
4. Operator name
5. Comments (if applicable)

These records shall be maintained on site and shall be available for review by KCIW personnel during normal business hours.

M. The permittee must establish a sewer account with the City of Issaquah and provide necessary reports to ensure accurate assessment of sewer charges for all construction dewatering discharge sites associated with this project.

### SELF-MONITORING REQUIREMENTS

A. The following self-monitoring requirements shall be met for this discharge authorization:

<u>Parameter</u>	<u>Frequency</u>	<u>Sample Type/Method</u>
Discharge volume	Daily	In-line flow meter
Discharge rate	Daily	In-line flow meter
Settleable solids	Daily	Grab by Imhoff cone
pH	Daily	Hand-held meter
Tetrachloroethylene (PCE)	Weekly	Grab
Vinyl chloride	Weekly	Grab
Cis-1,2-dichloroethene	Weekly	Grab
Chloromethane	Weekly	Grab
Arsenic	Weekly	Grab
Chromium	Weekly	Grab
Lead	Weekly	Grab

B. The settleable solids field test by Imhoff cone must be performed as follows:

1. Fill cone to one-liter mark with well-mixed sample.
2. Allow 45 minutes to settle.
3. Gently stir sides of cone with a rod or by spinning. Settle 15 minutes longer.
4. Record volume of settleable matter in the cone as ml/L.

C. Samples collected while dewatering within contaminated areas will be analyzed prior to initial discharge to ensure that the water meets pretreatment standards. After the initial sampling continuous flow is approved. Sampling for the listed contaminants shall be conducted on a weekly basis after the initial sampling while dewatering.

D. If a violation of any discharge limits or operating criteria is detected in monitoring, you shall notify KCIW immediately upon receipt of analytical data.

E. An end-of-project self-monitoring report (form enclosed), containing results of required self-monitoring and total volume discharged to the sewer, shall be submitted to KCIW by **January 15, 2015**.

F. All self-monitoring data submitted to KCIW, which required a laboratory analysis, must have been performed by a laboratory accredited by the Washington State Department of Ecology for each parameter tested, using procedures approved by 40 CFR 136. This does not apply to field measurements performed by the industrial user such as pH, temperature, flow, atmospheric hydrogen sulfide, total dissolved sulfides, total settleable solids by Imhoff cone, or process control information.

G. All sampling data collected by the permittee and analyzed using procedures approved by 40 CFR 136, or approved alternatives, shall be submitted to KCIW whether required as part of this authorization or done voluntarily by the permittee.

H. Self-monitoring reports shall be signed by an authorized representative of the industrial user. The authorized representative of the industrial user is defined as:

1. The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation

2. The manager of one or more manufacturing, production, or operating facilities, but only if the manager:
  - a. Is authorized to make management decisions that govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations
  - b. Can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements and knowledgeable of King County reporting requirements
  - c. Has been assigned or delegated the authority to sign documents, in accordance with corporate procedures
3. A general partner or proprietor if the industrial user is a partnership or proprietorship, respectively
4. A director or highest official appointed or designated to oversee the operation and performance of the industry if the industrial user is a government agency
5. The individuals described in one through four above may designate an authorized representative if:
  - a. The authorization is submitted to King County in writing
  - b. The authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company or agency

## **GENERAL DISCHARGE LIMITATIONS**

### **Operating criteria**

There shall be no odor of solvent, gasoline, or hydrogen sulfide (rotten egg odor), oil sheen, unusual color, or visible turbidity. The discharge must remain translucent. If any of the discharge limits are exceeded, you must stop discharging and notify KCIW at 206-263-3000.

### **Corrosive substances**

#### **Limits**

Maximum:	pH 12.0 (s.u.)
Instantaneous minimum:	pH 5.0 (s.u.)
Daily minimum:	pH 5.5 (s.u.)

The instantaneous minimum pH limit is violated whenever any single grab sample or any instantaneous recording is less than pH 5.0. The daily minimum pH limit is violated whenever any continuous recording of 15 minutes or longer remains below pH 5.5 or when each pH value of four consecutive grab samples collected at 15-minute intervals or longer within a 24-hour period remains below pH 5.5.

Discharges of more than 50 gallons per day of caustic solutions equivalent to more than 5 percent NaOH by weight or greater than pH 12.0 are prohibited unless authorized by KCIW and subject to special conditions to protect worker safety, the collection system, and treatment works.

### **Fats, oils, and grease**

Discharge of FOG shall not result in significant accumulations that either alone or in combination with other wastes are capable of obstructing flow or interfere with the operation or performance of sewer works or treatment facilities.

Nonpolar FOG (oil and grease from petroleum sources): The three nonpolar FOG grab samples shall be of equal volume, collected at least five minutes apart, and analyzed separately. When using U.S. Environmental Protection Agency approved protocols specified in 40 CFR Part 136, the individual grab samples may be composited (at the laboratory) prior to analysis. The result of the composite sample or the average of the concentrations of the three grab samples may be reported as Total FOG unless the value is 100 mg/L or greater, in which case the concentration of nonpolar FOG must be reported.

Polar FOG (oil and grease from animal and/or vegetable origin): Dischargers of polar FOG shall minimize free-floating polar FOG. Dischargers may not add emulsifying agents exclusively for the purpose of emulsifying free-floating FOG.

### **Flammable or explosive materials**

No person shall discharge any pollutant, as defined in 40 CFR 403.5, that creates a fire or explosion hazard in any sewer or treatment works, including, but not limited to, waste streams with a closed cup flashpoint of less than 140° Fahrenheit or 60° Centigrade using the test methods specified in 40 CFR 261.21.

At no time shall two successive readings on an explosion hazard meter, at the point of discharge into the system (or at any point in the system), be more than 5 percent nor any single reading be more than 10 percent of the lower explosive limit (LEL) of the meter.

Pollutants subject to this prohibition include, but are not limited to, gasoline, kerosene, naphtha, benzene, toluene, xylene, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides, and sulfides, and any other substances that King County, the fire department, Washington State, or the U.S. Environmental Protection Agency has notified the user are a fire hazard or a hazard to the system.

<b>Petroleum Compounds</b>	<b>Maximum Concentration ppm (mg/L)</b>
Benzene	0.07
Ethylbenzene	1.7
Toluene	1.4
Total xylenes	2.2
Tetrachloroethylene (PCE)	0.24
Cis-1,2-dichloroethylene	2.0
Vinyl chloride	0.012

### **Heavy metals/cyanide**

The industrial user shall not discharge wastes, which exceed the following limitations:

<b>Heavy Metals &amp; Cyanide</b>	<b>Instantaneous Maximum ppm (mg/L)<sup>1</sup></b>	<b>Daily Average ppm (mg/L)<sup>2</sup></b>
Arsenic	4.0	1.0
Cadmium	0.6	0.5
Chromium	5.0	2.75
Copper	8.0	3.0
Lead	4.0	2.0
Mercury	0.2	0.1
Nickel	5.0	2.5
Silver	3.0	1.0
Zinc	10.0	5.0
Cyanide	3.0	2.0

<sup>1</sup>The instantaneous maximum is violated whenever the concentration of any sample, including a grab within a series used to calculate daily average concentrations, exceeds the limitation.

<sup>2</sup>The daily average limit is violated: a) for a continuous flow system when a composite sample consisting of four or more consecutive samples collected during a 24-hour period over intervals of 15 minutes or greater exceeds the limitation, or b) for a batch system when any sample exceeds the limitation. A composite sample is defined as at least four grab samples of equal volume taken throughout the processing day from a well-mixed final effluent chamber, and analyzed as a single sample.

### **High temperature**

The industrial user shall not discharge material with a temperature in excess of 65° C (150° F).

**Hydrogen sulfide**

Atmospheric hydrogen sulfide: 10.0 ppm  
(As measured at a monitoring manhole designated by KCIW)

Soluble sulfide limits may be established on a case-by-case basis depending upon volume of discharge and conditions in the receiving sewer, including oxygen content and existing sulfide concentrations.

**Organic compounds**

No person shall discharge any organic pollutants that result in the presence of toxic gases, vapors, or fumes within a public or private sewer or treatment works in a quantity that may cause worker health and safety problems.

Organic pollutants subject to this restriction include, but are not limited to: Any organic pollutants compound listed in 40 CFR Section 433.11 (e) (total toxic organics [TTO] definition), acetone, 2-butanone (MEK), 4-methyl-2-pentanone (MIBK), and xylenes.

**Settleable solids**

Settleable solids concentrations: 7.0 ml/L

GENERAL CONDITIONS

- A. All requirements of King County Code pertaining to the discharge of wastes into the municipal sewer system are hereby made a condition of this discharge authorization.
- B. The industrial discharger shall implement measures to prevent accidental spills or discharges of prohibited substances to the municipal sewer system. Such measures include, but are not limited to, secondary containment of chemicals and wastes, elimination of connections to the municipal sewer system, and spill response equipment.
- C. Any facility changes, which will result in a change in the character or volume of the pollutants discharged to the municipal sewer system, must be reported to your KCIW representative. Any changes that will cause the violation of the effluent limitations specified herein will not be allowed.
- D. In the event the permittee is unable to comply with any of the conditions of this discharge authorization because of breakdown of equipment or facilities, an accident caused by human error, negligence, or any other cause, such as an act of nature the company shall:
1. Take immediate action to stop, contain, and clean up the unauthorized discharges and correct the problem.
  2. Immediately notify KCIW and, if after 5 p.m. weekdays and on weekends, call the emergency King County treatment plant phone number on Page 1 so steps can be taken to prevent damage to the sewer system.
  3. Submit a written report within 14 days of the event (*14-Day Report*) describing the breakdown, the actual quantity and quality of resulting waste discharged, corrective action taken, and the steps taken to prevent recurrence.
- E. Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of the discharge authorization or the resulting liability for failure to comply.
- F. The permittee shall, at all reasonable times, allow authorized representatives of KCIW to enter that portion of the premises where an effluent source or disposal system is located or in which any records are required to be kept under the terms and conditions of this authorization.
- G. Nothing in this discharge authorization shall be construed as excusing the permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations including discharge into waters of the state. Any such discharge is subject to regulation and enforcement action by the Washington State Department of Ecology.
- H. This discharge authorization does not authorize discharge after its expiration date. If the permittee wishes to continue to discharge after the expiration date, an application must be filed for reissuance of this discharge authorization at least 90 days prior to the expiration date. If the permittee submits its reapplication in the time specified herein, the permittee shall be deemed to have an effective wastewater discharge authorization until KCIW issues or denies the new wastewater discharge authorization. If the permittee fails to file its reapplication in the time period specified herein, the permittee will be deemed to be discharging without authorization.

Compliance Investigator: \_\_\_\_\_



Todd Gowing

Date: June 16, 2014



# **APPENDIX F**



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology  
**72 HOURS BEFORE** you construct a well.

**AE27072**

Submit one completed form for each job site and required fee (check or money order only) to:  
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>						
1. Property Owner Lenarr Multifamily Investors				Phone Number		
Mailing Address 720 Third Ave Ste 1420		City Seattle		State WA	Zip Code 98104	
2. Agent (if different from above) G-Logics				Phone Number		
Mailing Address 40 2nd Ave SE		City Issaquah		State WA	Zip Code 98027	
3. Well Location						
<b>Tax Parcel Number, Township, Range, Section, ¼, and ¼ ¼ are Required.</b> Latitude and longitude (if available).						
County Name King - 17						
Well Site Street Address 615 NW Gilman Blvd.			City Issaquah		State WA	Zip Code 98027
Tax Parcel Number 2824069258	Township 24N	Range 6E	Section 28	¼ (within 160 acres) NE	¼ - ¼ (within 40 acres) NW	
Latitude Degrees		Latitude Time min sec		Horizontal Collection Method		
Longitude Degrees		Longitude Time min sec				
4. Notice of Intent Number of well being decommissioned RE09374				Unique Well Tag Number of well being decommissioned (if applicable)		
5. Well Type to Decommission Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101 How Many? 3						
6. Estimated Decommission Start Date 6/2/2014 12:00:00				Project Name		
7. Professional's License Number						
8. Well Drilling Company Name Not Yet Defined				Phone Number None Supplied		
9. Well Driller Name KARIS VANDEHEY				Driller License Number 3034		

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well : \$50.00  
 Soil Sampling, Dewatering,  
 Environmental investigation wells: No Fee  
 All other wells: \$20.00 each  
 Amount Enclosed \$ \$60

This notification number must be provided to your driller:

**AE27072**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/2/2014. Your Cash Journal Validation Number is: 461S1408.  
 This message being sent at (6/3/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

**AE27073**

Submit one completed form for each job site and required fee (check or money order only) to:  
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>					
1. Property Owner Lennar Multifamily Investors			Phone Number		
Mailing Address 720 3rd Ave Ste 1420		City Seattle		State WA	Zip Code 98104
2. Agent (if different from above) G-Logics			Phone Number		
Mailing Address 40 2nd Ave SE		City Issaquah		State WA	Zip Code
3. Well Location					
<b>Tax Parcel Number, Township, Range, Section, ¼, and ¼ ¼ are Required.</b> Latitude and longitude (if available).					
County Name King - 17					
Well Site Street Address 685 NW Gilman Blvd			City Issaquah		Zip Code 98027
Tax Parcel Number	Township 24N	Range 6E	Section 28	¼ (within 160 acres) NW	¼ - ¼ (within 40 acres) NE
Latitude Degrees		Latitude Time min sec		Horizontal Collection Method	
Longitude Degrees		Longitude Time min sec			
4. Notice of Intent Number of well being decommissioned RE08571			Unique Well Tag Number of well being decommissioned (if applicable)		
5. Well Type to Decommission					
Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101				How Many?	1
6. Estimated Decommission Start Date 6/2/2014 12:00:00			Project Name		
7. Professional's License Number					
8. Well Drilling Company Name Not Yet Defined				Phone Number None Supplied	
9. Well Driller Name KARIS VANDEHEY				Driller License Number 3034	

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well : \$50.00  
 Soil Sampling, Dewatering,  
 Environmental investigation wells: No Fee  
 All other wells: \$20.00 each  
 Amount Enclosed \$ \$20

This notification number must be provided to your driller:

**AE27073**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/2/2014. Your Cash Journal Validation Number is: 461S1408.  
 This message being sent at (6/3/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

**AE27074**

Submit one completed form for each job site and required fee (check or money order only) to:  
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>					
1. Property Owner Lenarr Multifamily Investors			Phone Number		
Mailing Address 720 3rd Ave Ste 1420		City Seattle		State WA	Zip Code 98104
2. Agent (if different from above) G-Logics			Phone Number		
Mailing Address 40 2nd Ave. SE		City Issaquah		State WA	Zip Code 98027
3. Well Location					
<b>Tax Parcel Number, Township, Range, Section, ¼, and ¼ ¼ are Required.</b> Latitude and longitude (if available).					
County Name King - 17					
Well Site Street Address 615 Nw Gilman Blvd.			City Issaquah		State WA Zip Code 98027
Tax Parcel Number	Township 24N	Range 6E	Section 28	¼ (within 160 acres) NW	¼ - ¼ (within 40 acres) NE
Latitude Degrees		Latitude Time min sec		Horizontal Collection Method	
Longitude Degrees		Longitude Time min sec			
4. Notice of Intent Number of well being decommissioned R018027			Unique Well Tag Number of well being decommissioned (if applicable)		
5. Well Type to Decommission					
Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101				How Many?	3
6. Estimated Decommission Start Date 6/2/2014 12:00:00			Project Name		
7. Professional's License Number					
8. Well Drilling Company Name Not Yet Defined				Phone Number None Supplied	
9. Well Driller Name KARIS VANDEHEY				Driller License Number 3034	

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well :	\$50.00
Soil Sampling, Dewatering,	
Environmental investigation wells:	No Fee
All other wells:	\$20.00 each
Amount Enclosed \$	\$60

This notification number must be provided to your driller:

**AE27074**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/2/2014. Your Cash Journal Validation Number is: 461S1408.  
This message being sent at (6/3/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology  
**72 HOURS BEFORE** you construct a well.

**AE27374**

Submit one completed form for each job site and required fee (check or money order only) to:  
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>							
1. Property Owner Gilman Square LLC				Phone Number			
Mailing Address 2033 1st Ave Suite 2			City Seattle		State WA	Zip Code 98121	
2. Agent (if different from above)				Phone Number			
Mailing Address			City		State	Zip Code	
3. Well Location							
<b>Tax Parcel Number, Township, Range, Section, ¼, and ¼ ¼ are Required.</b> Latitude and longitude (if available).							
County Name King - 17							
Well Site Street Address				City		State WA	Zip Code
Tax Parcel Number		Township 25N	Range 4E	Section 31	¼ (within 160 acres) SW	¼ - ¼ (within 40 acres) SW	
Latitude Degrees		Latitude Time min                        sec			Horizontal Collection Method		
Longitude Degrees		Longitude Time min                        sec					
4. Notice of Intent Number of well being decommissioned				RE08854	Unique Well Tag Number of well being decommissioned (if applicable)		
5. Well Type to Decommission							
Resource Protection - \$20.00 each				Revised Code: 027-WEL1**-02-87-000101		How Many?	3
6. Estimated Decommission Start Date				Project Name			
6/23/2014 12:00:c							
7. Professional's License Number							
8. Well Drilling Company Name						Phone Number	
Not Yet Defined						None Supplied	
9. Well Driller Name						Driller License Number	
KARIS VANDEHEY						3034	

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well :	\$50.00	
Soil Sampling, Dewatering,		
Environmental investigation wells:	No Fee	
All other wells:	\$20.00 each	
Amount Enclosed \$	\$60	

This notification number must be provided to your driller:

**AE27374**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/18/2014. Your Cash Journal Validation Number is: 461S1489. This message being sent at (6/18/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

**AE27072**

Submit one completed form for each job site and required fee (check or money order only) to:  
Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>						
1. Property Owner Lenarr Multifamily Investors				Phone Number		
Mailing Address 720 Third Ave Ste 1420		City Seattle		State WA	Zip Code 98104	
2. Agent (if different from above) G-Logics				Phone Number		
Mailing Address 40 2nd Ave SE		City Issaquah		State WA	Zip Code 98027	
3. Well Location						
<b>Tax Parcel Number, Township, Range, Section, 1/4, and 1/4 1/4 are Required.</b> Latitude and longitude (if available).						
County Name King - 17						
Well Site Street Address 615 NW Gilman Blvd.			City Issaquah		State WA	Zip Code 98027
Tax Parcel Number 2824069258	Township 24N	Range 6E	Section 28	1/4 (within 160 acres) NE	1/4 - 1/4 (within 40 acres) NW	
Latitude Degrees		Latitude Time min sec		Horizontal Collection Method		
Longitude Degrees		Longitude Time min sec				
4. Notice of Intent Number of well being decommissioned RE09374			Unique Well Tag Number of well being decommissioned (if applicable)			
5. Well Type to Decommission Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101 How Many? 3						
6. Estimated Decommission Start Date 6/2/2014 12:00:00			Project Name			
7. Professional's License Number						
8. Well Drilling Company Name Not Yet Defined				Phone Number None Supplied		
9. Well Driller Name KARIS VANDEHEY				Driller License Number 3034		

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well : \$50.00  
 Soil Sampling, Dewatering,  
 Environmental investigation wells: No Fee  
 All other wells: \$20.00 each  
 Amount Enclosed \$ \$60

This notification number must be provided to your driller:

**AE27072**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/2/2014. Your Cash Journal Validation Number is: 461S1408.  
 This message being sent at (6/3/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# Notice of Intent to Decommission a Well

Notification Number

This form and required fees **MUST BE RECEIVED** by the Department of Ecology **72 HOURS BEFORE** you construct a well.

**AE27376**

Submit one completed form for each job site and required fee (check or money order only) to:  
 Department of Ecology Cashiering Unit, P.O. Box 47611, Olympia, WA 98504-7611

<b>NOTE: Please print. Processing your Notice of Intent may be delayed if all fields are not filled in completely.</b>					
1. Property Owner Gilman Square LLC			Phone Number		
Mailing Address 2033 1st Ave Suite 2		City Seattle		State WA	Zip Code 98121
2. Agent (if different from above)			Phone Number		
Mailing Address		City		State	Zip Code
3. Well Location					
<b>Tax Parcel Number, Township, Range, Section, 1/4, and 1/4 1/4 are Required.</b> Latitude and longitude (if available).					
County Name King - 17					
Well Site Street Address 615 NW Gilman Blvd			City Issaquah		State WA
Tax Parcel Number		Township 25N	Range 4E	Section 31	1/4 (within 160 acres) SW
				1/4 - 1/4 (within 40 acres) SW	
Latitude Degrees		Latitude Time min sec		Horizontal Collection Method	
Longitude Degrees		Longitude Time min sec			
4. Notice of Intent Number of well being decommissioned RE09506			Unique Well Tag Number of well being decommissioned (if applicable)		
5. Well Type to Decommission					
Resource Protection - \$20.00 each Revised Code: 027-WEL1**-02-87-000101				How Many?	3
6. Estimated Decommission Start Date 6/23/2014 12:00:			Project Name		
7. Professional's License Number					
8. Well Drilling Company Name Not Yet Defined				Phone Number None Supplied	
9. Well Driller Name KARIS VANDEHEY				Driller License Number 3034	

**10. Send the entire form.**

Please copy the notification number (located in the upper and lower right corners) and keep in a safe place. Use this reference number when communicating with the Department of Ecology.

Water Well : \$50.00  
 Soil Sampling, Dewatering,  
 Environmental investigation wells: No Fee  
 All other wells: \$20.00 each  
 Amount Enclosed \$ \$60

This notification number must be provided to your driller:

**AE27376**

karisv@g-logics.com

Your Notice of Intent has been processed as of 6/18/2014. Your Cash Journal Validation Number is: 461S1489. This message being sent at (6/18/2014)

## Instructions

- Item 1: Property owner's name, daytime phone number and mailing address.
- Item 2: Agent - If the driller, consultant or other person is acting as your agent and is submitting the notification fee, please provide their name, mailing address and daytime phone number
- Item 3: Complete county name and code number from drop down list. If the site street address is available, please fill in the complete address here. Include city and zip code. Please enter the tax parcel number if available. NOTE: Include all dashes and zeros. Please provide the Township, Range, Section, where the well is located. This information can be found in your property legal description or the County Assessor's Office
- Item 4: Please enter the original construction notice of intent number if available.
- Item 5: Type of well to decommission. Please note those wells that require a fee and those that do not.
- Item 6: Enter the approximate decommissioning start date.
- Item 7-11: This information should be available from your well driller.

## For Assistance

**Contact the Department of Ecology Regional Office where the well is located.**

*Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima counties contact:*

**Central Regional Office (CRO) (509) 575-2490 TTY 711 and 1-800-833-6388**

*Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman counties contact:*

**Eastern Regional Office (ERO) (509) 329-3400 TTY 711 and 1-800-833-6388**

*Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom counties contact:*

**Northwest Regional Office (NWRO) (425) 649-7000 TTY 711 and 1-800-833-6388**

*Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum counties contact:*

**Southwest Regional Office (SWRO) (360) 407-6300 TTY 711 and 1-800-833-6388**

*If you need this document in a format for the visually impaired, call Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27072 Construction Notice of Intent Number (if available) RE09374

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LEWALE MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) BIC-996

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	<input type="radio"/> Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 615 NW GILMAN BLVD.

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	<input checked="" type="checkbox"/>	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"x"  $\frac{1}{4}$ ,  $\frac{1}{2}$  of well

Township 24 N Range 6 Circle One  East  West Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing   Seal in Place

Diameter of Well 0 ft 2 in Depth of Well before decommissioning 13 ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One)	Concrete <input type="radio"/> Plastic <input checked="" type="radio"/> Steel <input type="radio"/> Other _____	Diameter <u>2</u> inches	Stickup <u>0</u> inches	Depth <u>0</u> ft <u>2</u> in, TO <u>13</u> ft <u>0</u> in
Type (Circle One)	Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth <u>0</u> ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDELHEE Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOGICS.COM

If TRAINEE, Mentor Driller License No. _____
Mentor Driller Signature _____



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27072 Construction Notice of Intent Number (if available) RE09374

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LAWARE MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) BIC-997

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

- Enviro Investigation
- Monitoring
- Observation
- Piezometer
- Spill Response
- Remediation
- Geotech Soil Boring
- Grounding
- Instrumentation
- Vapor Extraction
- Ground Source Heat Pump Boring

Decommission Start Date 11/14/14 Decommission Completion Date 11/14/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 615 NW GELMAN BLVD.

Well City ISSAQUAH Well County KLING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	<del>NW</del>	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"x" ¼, ½ of well

Township 24 N Range 6 Circle One  East or West Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing   Seal in Place

Diameter of Well 0 ft 2 in Depth of Well before decommissioning 9 ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

- Type (Circle One) Concrete   Plastic Steel Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 9 ft 0 in
- Type (Circle One) Concrete Plastic Steel Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in
- Type (Circle One) Concrete Plastic Steel Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in
- Type (Circle One) Concrete Plastic Steel Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in
- Type (Circle One) Concrete Plastic Steel Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

ECY 070-388 (Revised 1-11) The Department of Ecology does NOT warranty the Data and/or Information on this Well Report. If you need this document in an alternate format for the visually impaired, please call the Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name (Print) KARIS VANDERHEY Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOUISIS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27072 Construction Notice of Intent Number (if available) RE09374

Property Owner Last Name LEWARR MULTIFAMILY INVESTORS First Name \_\_\_\_\_

Organization Name \_\_\_\_\_

Well Tag ID Number(s) (e.g., AAA001-AAA025) BIC-998

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 7/10/14 Decommission Completion Date 7/10/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 615 NW SELMAN BLVD

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	<del>NW</del>	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"X" ¼, ¼ of well

Township 24 N Range 6 Circle One  East  West Section 29

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing   Seal in Place **GROUT - WELL WILL BE EXCAVATED OUT @ TIME OF CONSTRUCTION**

Diameter of Well - ft .75 in

Depth of Well before decommissioning 12' ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter .75 inches Stickup 0 inches Depth 0 ft 2 in, TO 12 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One)  Driller  Trainee Engineer Name(Print) KARIS VANDERHEY Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

If TRAINEE, Mentor Driller License No. \_\_\_\_\_ Phone Number 360-259-6666  
Mentor Driller Signature \_\_\_\_\_ Email Address KARISV@G-LOGICS.COM



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27073 Construction Notice of Intent Number (if available) RE08571

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LENVAR MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) BH7-782

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 685 NW GILMAN BLVD.

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	<input checked="" type="checkbox"/>	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"x" ¼, ½ of well

Township 24 N Range 6 Circle One - East  or West  Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING (You must Circle One)**

Perforate Casing  Pull Casing  Seal in Place

Diameter of Well 0 ft 2 in

Depth of Well before decommissioning 25 ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 25 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth 0 ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VAUPENS Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOGICS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27074 Construction Notice of Intent Number (if available) RO18027

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LENARR MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) N/A

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 615 NW GILMAN BLVD

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	<input checked="" type="checkbox"/>	NE	SE
SW	SE	NW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"X" ¼, ½ of well

Township 24 N Range 6 Circle One  East or West Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING (You must Circle One)**

Perforate Casing  Pull Casing   Seal in Place

Diameter of Well 0 ft 2 in

Depth of Well before decommissioning 9 ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 9 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth 0 ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDERHEI Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

If TRAINEE, Mentor Driller License No. \_\_\_\_\_ Phone Number 360-259-6666

Mentor Driller Signature \_\_\_\_\_ Email Address KARISV@G-LOGICS.COM



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27074 Construction Notice of Intent Number (if available) RO18027

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LEWARR MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) N/A

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) \_\_\_\_\_

Variance Received? (Circle one) Yes  No

Type of Well (Circle One ONLY):

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 615 NW GILMAN BLVD

Well City ISSAQUAH Well County KEWEE Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	<input checked="" type="checkbox"/>	SW	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

"X"  $\frac{1}{4}$ ,  $\frac{1}{2}$  of well

Township 24 N Range 6 Circle One East or West Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED

TYPE OF DECOMMISSIONING (You must Circle One) Perforate Casing  Pull Casing  Seal in Place

Diameter of Well 0 ft 2 in Depth of Well before decommissioning 10 ft 0 in

CASING INFORMATION (YOU MUST FILL THIS OUT)

Type (Circle One)	Concrete	<input checked="" type="radio"/> Plastic	Steel	Other _____	Diameter	<u>2</u> inches	Stickup	<u>0</u> inches	Depth	<u>0</u> ft <u>2</u> in, TO <u>10</u> ft <u>0</u> in
Type (Circle One)	Concrete	Plastic	Steel	Other _____	Diameter	_____ inches	Stickup	_____ inches	Depth	_____ ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete	Plastic	Steel	Other _____	Diameter	_____ inches	Stickup	_____ inches	Depth	<u>0</u> ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete	Plastic	Steel	Other _____	Diameter	_____ inches	Stickup	_____ inches	Depth	_____ ft _____ in, TO _____ ft _____ in
Type (Circle One)	Concrete	Plastic	Steel	Other _____	Diameter	_____ inches	Stickup	_____ inches	Depth	_____ ft _____ in, TO _____ ft _____ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDEHEI Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOGICS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27074 Construction Notice of Intent Number (if available) RO18027

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name LEWARR MULTIFAMILY INVESTORS

Well Tag ID Number(s) (e.g., AAA001-AAA025) N/A

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) \_\_\_\_\_

Variance Received? (Circle one) Yes  No

Type of Well (Circle One ONLY):

Enviro Investigation  Monitoring  Observation  Piezometer  Spill Response  Remediation

Geotech Soil Boring  Grounding  Instrumentation  Vapor Extraction  Ground Source Heat Pump Boring

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 6015 NW GILMAN BLVD

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	<input checked="" type="checkbox"/>	NE	SE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	SW	SE

Township 24 N Range 6 Circle One  East  West Section 28

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

### Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED

TYPE OF DECOMMISSIONING (You must Circle One) Perforate Casing  Pull Casing  Seal in Place

Diameter of Well 0 ft 2 in Depth of Well before decommissioning 10 ft 0 in

CASING INFORMATION (YOU MUST FILL THIS OUT)

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 10 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth 0 ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDEHEI Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOGICS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27374 Construction Notice of Intent Number (if available) RE08854

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name GILMAN SQUARE LLC

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHU-490

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

Type of Well (Circle One ONLY):

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 7TH AVE NW

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
<input checked="" type="checkbox"/> NW	SE	SW	SE

"X" ¼, ½ of well

Township 25 N Range 4 Circle One  East  West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

## Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED

TYPE OF DECOMMISSIONING (You must Circle One)

Perforate Casing  Pull Casing   Seal in Place

Diameter of Well 0 ft 2 in

Depth of Well before decommissioning 15 ft 0 in

CASING INFORMATION (YOU MUST FILL THIS OUT)

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 15 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth 0 ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One)  Driller  Trainee Engineer Name (Print) KARIS VANDENHEK Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 73034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@B-LOUIS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27374 Construction Notice of Intent Number (if available) RE08854

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name GILMAN SQUARE LLC

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHU-491

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation	<input checked="" type="radio"/> Monitoring	Observation	Piezometer	Spill Response	Remediation
Geotech Soil Boring	<input type="radio"/> Grounding	Instrumentation	Vapor Extraction	Ground Source Heat Pump Boring	

Decommission Start Date 7/10/14 Decommission Completion Date 7/10/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 685 NW GILMAN BLVD

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
SW	SE	<input checked="" type="checkbox"/>	SE

"x" ¼, ¼ of well

Township 25 N Range 4 Circle One  East or West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION – YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One) Perforate Casing  Pull Casing   Seal in Place

Diameter of Well 0 ft 1 in Depth of Well before decommissioning 9 ft 0 in

*GROUT-WELL WILL BE EXCAVATED OUT @ TIME OF CONSTRUCTION*

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete <input type="radio"/> Plastic <input checked="" type="radio"/> Steel <input type="radio"/> Other _____	Diameter <u>1</u> inches	Stickup <u>0</u> inches	Depth <u>0</u> ft <u>3</u> in, TO <u>9</u> ft <u>0</u> in
Type (Circle One) Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in
Type (Circle One) Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in
Type (Circle One) Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in
Type (Circle One) Concrete <input type="radio"/> Plastic <input type="radio"/> Steel <input type="radio"/> Other _____	Diameter _____ inches	Stickup _____ inches	Depth _____ ft _____ in, TO _____ ft _____ in

ECY 070-388 (Revised 1-11) *The Department of Ecology does NOT warranty the Data and/or Information on this Well Report. If you need this document in an alternate format for the visually impaired, please call the Water Resources Program at 360-407-6872. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

**Perforator Information**

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name (Print) KARIS VANDEHEE Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@G-LOUIS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_



# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27374 Construction Notice of Intent Number (if available) RE08854

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name GILMAN SQUARE LLC

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHU-489

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation  **Monitoring**  Observation  Piezometer  Spill Response  Remediation

Geotech Soil Boring  Grounding  Instrumentation  Vapor Extraction  Ground Source Heat Pump Boring

Decommission Start Date 9/9/14 Decommission Completion Date 9/9/14

**Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)**

Well Street Address 7TH AVE NW

Well City ISSAQUAH Well County KING Well Zip Code 98027

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
<input checked="" type="checkbox"/>	SE	SW	SE

"x" 1/4, 1/2 of well

Township 25 N Range 4 Circle One **East** or West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING (You must Circle One)**

Perforate Casing  Pull Casing  **Seal in Place**

Diameter of Well 0 ft 2 in

Depth of Well before decommissioning 14 ft 6 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  **Plastic**  Steel  Other \_\_\_\_\_ Diameter 2 inches Stickup 0 inches Depth 0 ft 2 in, TO 14 ft 6 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth 0 ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One)  Driller  Trainee Engineer Name(Print) KARIS VANDEHEE Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>th</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA

Phone Number 360-259-6666

Email Address KARISV@E-LOOPER.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_

# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27376 Construction Notice of Intent Number (if available) RE09506

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name GELMAN SQUARE LLC

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHV-489

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) \_\_\_\_\_

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation  Monitoring  Observation  Piezometer  Spill Response  Remediation

Geotech Soil Boring  Grounding  Instrumentation  Vapor Extraction  Ground Source Heat Pump Boring

Decommission Start Date 11/14/14 Decommission Completion Date 11/14/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 615 NW GELMAN BLVD

Well City ISSAQUAH Well County KENW Well Zip Code \_\_\_\_\_

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
<input checked="" type="checkbox"/> SW	SE	SW	SE

Township 25 N Range 4 Circle One  East  West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

"x" 1/4, 1/2 of well

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing  Seal in Place  *GROUT-WELL WILL BE EXCAVATED OUT @ TIME OF CONSTRUCTION*

Diameter of Well    ft    in Depth of Well before decommissioning 11 ft    in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 1 inches Stickup 0 inches Depth 0 ft 3 in, TO 11 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_ in by \_\_\_\_ in Total Perforations \_\_\_\_

Perforation 1 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches Perforation 2 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches

Perforation 3 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches Perforation 4 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches

Perforation 5 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches Perforation 6 from \_\_\_\_ ft \_\_\_\_ in, TO \_\_\_\_ ft \_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One)  Driller  Trainee  Engineer Name(Print) KARIS VANDERHEY Drilling Company \_\_\_\_\_  
Driller/Engineer/Trainee Signature: [Signature] Address 3307 36<sup>TH</sup> AVE NE OLY  
Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506  
If TRAINEE, Mentor Driller License No. \_\_\_\_\_ Phone Number 360-259-6666  
Mentor Driller Signature \_\_\_\_\_ Email Address KARISV@G-LOGICS.COM

# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27376 Construction Notice of Intent Number (if available) RE09SD6

Property Owner Last Name \_\_\_\_\_ First Name \_\_\_\_\_

Organization Name GELMAN SQUARE LLC

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHU-490

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation  Monitoring Observation  Piezometer  Spill Response  Remediation

Geotech Soil Boring  Grounding  Instrumentation  Vapor Extraction  Ground Source Heat Pump Boring

Decommission Start Date 10/29/14 Decommission Completion Date 10/29/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 615 NW GELMAN BLVD

Well City ISSAQUAH Well County KING Well Zip Code \_\_\_\_\_

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
<input checked="" type="checkbox"/> SW	SE	SW	SE

Township 25 N Range 4 Circle One  East  West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

"x" ¼, ½ of well

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing  Seal in Place  GRAB - WELL WILL BE EXCAVATED @ TIME OF CONSTRUCTION

Diameter of Well 1 ft 1 in Depth of Well before decommissioning 12 ft 0 in

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter 1 inches Stickup 0 inches Depth 0 ft 3 in, TO 12 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches      Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDEITTEY Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARISV@C-LOVELL.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_

# RESOURCE PROTECTION DECOMMISSIONING WELL REPORT

Decommissioning Notice of Intent Number AE27376 Construction Notice of Intent Number (if available) RE09506

Property Owner Last Name GILMAN SQUARE LLC First Name \_\_\_\_\_

Organization Name \_\_\_\_\_

Well Tag ID Number(s) (e.g., AAA001-AAA025) BHV-491

Well(s) Decommissioned (You may enter more than 1 well if ALL wells have identical decommissioning information. If not, you MUST submit another NOI and well report(s)) 1

Variance Received? (Circle one) Yes  No

**Type of Well (Circle One ONLY):**

Enviro Investigation  Monitoring  Observation  Piezometer  Spill Response  Remediation

Geotech Soil Boring  Grounding  Instrumentation  Vapor Extraction  Ground Source Heat Pump Boring

Decommission Start Date 9/17/14 Decommission Completion Date 9/17/14

Well Location Only (No Mailing Address, No PO Box, Cross Streets are ok)

Well Street Address 615 NW GILMAN BLVD.

Well City ISSAQUAH Well County KING Well Zip Code \_\_\_\_\_

Tax Parcel Number \_\_\_\_\_

If claiming tax parcel exemption (Circle One) Tribal  Federal Property  Right of Way  Railroad Land

NW	NE	NW	NE
SW	SE	SW	SE
NW	NE	NW	NE
<del>SW</del>	SE	SW	SE

Township 25 N Range 4 Circle One  East  West Section 31

Latitude \_\_\_\_\_ Decimal Degrees; Longitude \_\_\_\_\_ West Decimal Degrees

"x" ¼, ¼ of well

**Decommissioning INFORMATION - YOUR WELL REPORT WILL BE RETURNED TO YOU IF NOT COMPLETED PROPERLY; ATTACH ADDITIONAL SHEETS IF NEEDED**

**TYPE OF DECOMMISSIONING** (You must Circle One)

Perforate Casing  Pull Casing   Seal in Place

Diameter of Well - ft .75 in Depth of Well before decommissioning 13 ft 0 in @ TIME OF CONSTRUCTION

**CASING INFORMATION (YOU MUST FILL THIS OUT)**

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter .75 inches Stickup 0 inches Depth 0 ft 3 in, TO 13 ft 0 in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

Type (Circle One) Concrete  Plastic  Steel  Other \_\_\_\_\_ Diameter \_\_\_\_\_ inches Stickup \_\_\_\_\_ inches Depth \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ in

**If you chose decommission type "PERFORATE CASING" FILL OUT THIS BOX ALSO**

Perforator Information

Type of Perforator (Circle One) Drill Mills Knife Saw cut Star Torch Cut Other \_\_\_\_\_ Perforation size \_\_\_\_\_ in by \_\_\_\_\_ in Total Perforations \_\_\_\_\_

Perforation 1 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches Perforation 2 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 3 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches Perforation 4 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Perforation 5 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches Perforation 6 from \_\_\_\_\_ ft \_\_\_\_\_ in, TO \_\_\_\_\_ ft \_\_\_\_\_ inches

Comments – Enter any other important well construction and/or location details here.

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**CERTIFICATION** – I hereby certify that I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington Well construction standards. Materials used and the information reported within the Well Report are true to my best knowledge and belief.

(Circle One) Driller Trainee Engineer Name(Print) KARIS VANDEHEY Drilling Company \_\_\_\_\_

Driller/Engineer/Trainee Signature [Signature] Address 3307 36<sup>TH</sup> AVE NE

Driller/Trainee/PE License No. 3034 City, State, Zip OLYMPIA WA 98506

Phone Number 360-259-6666

Email Address KARIS@G-LOGICS.COM

If TRAINEE, Mentor Driller License No. \_\_\_\_\_

Mentor Driller Signature \_\_\_\_\_

# **APPENDIX G**



# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

September 25, 2014

Stuart Hyde  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Mr. Hyde:

Please find enclosed the analytical data report for the Gilmore Square Project located in Issaquah, Washington. Soil and water samples were analyzed for Volatile Organic Compounds by EPA Method 8260C on September 22 & 23, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Jamie L. Deyman  
*President*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Olympia, WA 98506  
 Ph: 360-352-2110 Fax: 360-352-4154

Date: 9/22/14 Page: 1 of 1

Client: G-Logics  
 Address: 40 2nd Ave SE  
 City: Issaquah State: WA Zip: 98027  
 Phone: 425-391-6874 Cell: 804-837-5205  
 Client Project #: 01-0868-J

Project Manager: Stuart Hyde  
 Project Name: Gilman Square  
 Location: 675 NW Gilman Blvd City, State: Issaquah, WA  
 Collector: SHyde Date of Collection: 9/22/14  
 Email: stuarth@g-logics.com

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes				
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260 <del>Cl-Solvents</del>	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals					
1 GL-TP-7-0.5'	0.5'	08:40	Soil	4oz VOA		X													3
2 GL-TP-8-0.5'	0.5'	08:55	"	"		X													
3 NSW-1-4'	4'	1005	"	"		X													
4 WSW-1-4'	4'	1005	"	"		X													
5 B-1-7'	7'	1050	"	"		X													
6 NSW-2-3'	3'	1145	"	"		X													
7 B-2-6'	6'	1225	"	"		X													
8 WSW-2-4'	4'	1240	"	"		X													
9 <del>NSW-3-4'</del>	4'	1250	"	"		X													Name = ESW-1-4'
10 NSW-4-2'	2'	1250	"	"		X													
11 WSW-3-4.5'	4.5'	1430	"	"		X													
12 NSW-5-3'	3'	1435	"	"		X													
13 WSW-4-5'	5'	1530	"	"		X													
14 ESW-2-3'	3'	1530	"	"		X													
15																			
16																			
17																			

Relinquished by: SHyde	Date / Time: 9/22/14	Received by: LWA	Date / Time: 9-22-14	Sample Receipt:	Remarks:  ML  TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
				Cold?	
				Seals Intact?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Total Number of Containers	

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110

Olympia, WA 98506 Fax: 360-352-4154

Date: 9-23-14 Page: 1 of 1

Client: G-Logics

Project Manager: Stuart Hyde

Address: 40 2<sup>nd</sup> Ave SE

Project Name: Gilman Square

City: Issaquah State: WA Zip: 98027

Location: 675 NW Gilman Blvd City, State: Issaquah, WA

Phone: 425-391-6874 Fax: Call 804-837-5205

Collector: S Hyde Date of Collection: 9-23-14

Client Project # 01-0868-5

Email: Stuart.H@G-Logics.com



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals					
1 <del>WSW-5-5'</del>	5.0'	0750	S	40z VOA	X														3
2 B-3-6'	6'	0800	S		A														
3 NSW-3-5'	5'	0915	S		X														
4 WSW-6-5.5'	5.5'	0920	S		X														
5 B-4-6'	6'	0920	S		X														
6 SSW-1-4.5'	4.5'	1015			X														
7 SSW-2-2'	2'	1115			X														
8 SSW-4-5'	5'	1115			X														
9 SSW-3-5'	5'	1120			X														
10 ESW-3-4'	4'	1120			X														
11 WSW-7-4'	4'	1330			X														
12 B-5-6'	6'	1335			X														
13 B-6-6'	6'	1340			X														
14 B-7-6'	6'	1345			X														
15 Exc.-GW		1350	H <sub>2</sub> O	3 VOAs	X														
16																			
17																			

Relinquished by: <u>St Me</u>	Date / Time: <u>9/23/14 1405</u>	Received by: <u>St Hyde</u>	Date / Time: <u>9-23-14</u>	Sample Receipt:	Remarks:  <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers:	TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

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Olympia, WA 98506

Fax: 360-352-4154

Date: 9-23-14

Page: 1 of 1

Client: G-Logics

Project Manager: Stuart Hyde

Address: 410 2nd Ave SE

Project Name: Gilman Square

City: Issaquah State: WA Zip: 98027

Location: 675 NW Gilman Blvd City, State: Issaquah WA

Phone: 425-391-6874 Fax:

Collector: S Hyde Date of Collection: 9-23-14

Client Project # 01-0868-5

Email:



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260 <u>CO-VOC</u>	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	NWTPH-DX Ext.	PAH 8270	PCB's 8082		MTCA 5 Metals		
1 <u>Baker tank 923</u>			<u>W</u>	<u>40ml VOA</u>		<u>X</u>												<u>3</u>
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: <u>[Signature]</u>	Date / Time: <u>9/23/14 1410</u>	Received by: <u>[Signature]</u>	Date / Time: <u>9-23-14 1000</u>	Sample Receipt: Good Condition? <input type="checkbox"/> Cold? <input type="checkbox"/> Seals Intact? <input type="checkbox"/> Total Number of Containers: <input type="text"/>	Remarks: <u>Rush</u> TAT: 24HR 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		
Relinquished by:	Date / Time:	Received by:	Date / Time:		

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		Method Blank	GL-TP-7- 0.5'	GL-TP-7- 0.5' Dup	GL-TP-8- 0.5'	NSW-1-4'	WSW-1-4'
Date Sampled	Reporting	N/A	9/22/14	9/22/14	9/22/14	9/22/14	9/22/14
Date Analyzed	Limits (mg/kg)	9/22/14 (mg/kg)	9/22/14 (mg/kg)	9/22/14 (mg/kg)	9/22/14 (mg/kg)	9/22/14 (mg/kg)	9/22/14 (mg/kg)
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd	0.022
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
<b>Surrogate Recovery</b>							
Dibromofluoromethane		102	92	99	106	103	104
1,2-Dichloroethane-d4		126	97	114	131	124	132
Toluene-d8		94	97	91	91	95	97
4-Bromofluorobenzene		101	91	99	104	101	99

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		B-1-7'	NSW-2-3'	B-2-6'	WSW-2-4'	ESW-1-4'	NSW-4-2'
Date Sampled	Reporting	9/22/14	9/22/14	9/22/14	9/22/14	9/22/14	9/22/14
Date Analyzed	Limits	9/22/14	9/22/14	9/22/14	9/22/14	9/22/14	9/22/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	0.082	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		107	103	101	106	106	102
1,2-Dichloroethane-d4		128	122	114	131	131	131
Toluene-d8		93	88	89	96	95	95
4-Bromofluorobenzene		102	98	97	104	104	105

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		WSW-3- 4.5'	NSW-5-3'	WSW-4-5'	ESW-2-3'
Date Sampled	Reporting	9/22/14	9/22/14	9/22/14	9/22/14
Date Analyzed	Limits	9/22/14	9/22/14	9/22/14	9/22/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	0.059	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd
<b>Surrogate Recovery</b>					
Dibromofluoromethane		108	102	101	105
1,2-Dichloroethane-d4		134	122	120	117
Toluene-d8		94	93	89	91
4-Bromofluorobenzene		105	98	100	99

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: WSW-3-4.5'							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
1,1-Dichloroethene	0.50	0.41	82	0.50	0.43	86	4.8
Chlorobenzene	0.50	0.43	86	0.50	0.43	86	0.0
Trichloroethene (TCE)	0.50	0.47	94	0.50	0.54	108	13.9
Surrogate Recovery							
Dibromofluoromethane			108			109	
1,2-Dichloroethane-d4			127			126	
Toluene-d8			92			95	
4-Bromofluorobenzene			104			96	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
1,1-Dichloroethene	0.50	0.45	90
Chlorobenzene	0.50	0.46	92
Trichloroethene (TCE)	0.50	0.50	100
Surrogate Recovery			
Dibromofluoromethane			103
1,2-Dichloroethane-d4			118
Toluene-d8			95
4-Bromofluorobenzene			98

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt

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 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description	Method	WSW-5-5'	WSW-5-5'	B-3-6'	NSW-3-5'	WSW-6-5.5'
	Blank		Dup			
Date Sampled	Reporting	N/A	9/23/14	9/23/14	9/23/14	9/23/14
Date Analyzed	Limits	9/23/14	9/23/14	9/23/14	9/23/14	9/23/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd
Surrogate Recovery						
Dibromofluoromethane		107	94	100	97	99
1,2-Dichloroethane-d4		132	104	128	120	133
Toluene-d8		91	92	88	91	81
4-Bromofluorobenzene		97	89	93	86	94

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		B-4-6'	SSW-1-4.5'	SSW-2-2'	SSW-4-5'	SSW-3-5'	ESW-3-4'
Date Sampled	Reporting	9/23/14	9/23/14	9/23/14	9/23/14	9/23/14	9/23/14
Date Analyzed	Limits	9/23/14	9/23/14	9/23/14	9/23/14	9/23/14	9/23/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
Surrogate Recovery							
Dibromofluoromethane		96	95	99	95	98	99
1,2-Dichloroethane-d4		123	111	128	114	122	127
Toluene-d8		90	81	77	79	89	88
4-Bromofluorobenzene		88	93	94	94	93	94

"nd" Indicates not detected at listed detection limit.

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ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description		WSW-7-4'	B-5-6'	B-6-6'	B-7-6'
Date Sampled	Reporting	9/23/14	9/23/14	9/23/14	9/23/14
Date Analyzed	Limits	9/23/14	9/23/14	9/23/14	9/23/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd
<b>Surrogate Recovery</b>					
Dibromofluoromethane		98	94	92	98
1,2-Dichloroethane-d4		121	118	116	108
Toluene-d8		81	77	90	90
4-Bromofluorobenzene		94	90	90	76

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

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G-Logics, Inc.  
Issaquah, Washington  
Libby Project # L140922-40  
Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: B-7-6'							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
1,1-Dichloroethene	0.50	0.39	78	0.50	0.36	72	8.0
Chlorobenzene	0.50	0.45	90	0.50	0.45	90	0.0
Trichloroethene (TCE)	0.50	0.51	102	0.50	0.47	94	8.2
Surrogate Recovery							
Dibromofluoromethane			116			96	
1,2-Dichloroethane-d4			135			104	
Toluene-d8			97			91	
4-Bromofluorobenzene			93			93	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
1,1-Dichloroethene	0.50	0.37	74
Chlorobenzene	0.50	0.43	86
Trichloroethene (TCE)	0.50	0.43	86
Surrogate Recovery			
Dibromofluoromethane			103
1,2-Dichloroethane-d4			128
Toluene-d8			89
4-Bromofluorobenzene			100

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt

# Libby Environmental, Inc.

4139 Libby Road NE  
Olympia, WA 98506  
Phone: (360) 352-2110  
FAX: (360) 352-4154  
Email: libbyenv@aol.com

GILMAN SQUARE PROJECT  
G-Logics, Inc.  
Issaquah, Washington  
Libby Project # L140922-40  
Client Project # 01-0868-J

## Volatile Aromatic Compounds by EPA Method 8260C in Water

Sample Description	Method	Exc.-GW	
	Blank		
Date Sampled	Reporting	N/A	9/23/14
Date Analyzed	Limits	9/23/14	9/23/14
	(µg/l)	(µg/l)	(µg/l)
Chloromethane	2.0	nd	nd
Vinyl chloride	0.2	nd	20.1
Chloroethane	2.0	nd	nd
1,1-Dichloroethene	2.0	nd	nd
<i>trans</i> -1,2-Dichloroethene	1.0	nd	1.2
1,1-Dichloroethane	1.0	nd	nd
2,2-Dichloropropane	2.0	nd	nd
<i>cis</i> -1,2-Dichloroethene	1.0	nd	205
Chloroform	1.0	nd	nd
1,1,1-Trichloroethane (TCA)	1.0	nd	nd
Carbon tetrachloride	1.0	nd	nd
1,1-Dichloropropene	1.0	nd	nd
1,2-Dichloroethane (EDC)	1.0	nd	nd
Trichloroethene (TCE)	1.0	nd	97.5
1,2-Dichloropropane	1.0	nd	nd
<i>cis</i> -1,3-Dichloropropene	1.0	nd	nd
<i>Trans</i> -1,3-Dichloropropene	1.0	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd
Tetrachloroethene (PCE)	1.0	nd	89.9
2-Chlorotoluene	1.0	nd	nd
4-Chlorotoluene	1.0	nd	nd
1,3-Dichlorobenzene	1.0	nd	nd
1,4-Dichlorobenzene	1.0	nd	nd
1,2-Dichlorobenzene	1.0	nd	nd
Surrogate Recovery			
Dibromofluoromethane	107	101	
1,2-Dichloroethane-d4	132	125	
Toluene-d8	91	89	
4-Bromofluorobenzene	97	89	

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: L140923-40							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	
1,1-Dichloroethene	10	8.6	86	10	8.5	85	1.2
Chlorobenzene	10	7.7	77	10	8.5	85	9.9
Trichloroethene (TCE)	10	9.1	91	10	9.3	93	2.2
Surrogate Recovery							
Dibromofluoromethane			111			103	
1,2-Dichloroethane-d4			133			122	
Toluene-d8			90			79	
4-Bromofluorobenzene			91			92	

Laboratory Control Sample			
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)
1,1-Dichloroethene	10	7.4	74
Chlorobenzene	10	8.5	85
Trichloroethene (TCE)	10	8.6	86
Surrogate Recovery			
Dibromofluoromethane			103
1,2-Dichloroethane-d4			128
Toluene-d8			89
4-Bromofluorobenzene			100

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt

# Libby Environmental, Inc.

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 Olympia, WA 98506  
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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## Volatile Aromatic Compounds by EPA Method 8260C in Water

Sample Description	Method	Baker Tank	Baker Tank
	Blank	923	923 Dup
Date Sampled	Reporting	9/23/14	9/23/14
Date Analyzed	Limits	9/23/14	9/23/14
	(µg/l)	(µg/l)	(µg/l)
Chloromethane	2.0	nd	nd
Vinyl chloride	0.2	nd	nd
Chloroethane	2.0	nd	nd
1,1-Dichloroethene	2.0	nd	nd
<i>trans</i> -1,2-Dichloroethene	1.0	nd	nd
1,1-Dichloroethane	1.0	nd	nd
2,2-Dichloropropane	2.0	nd	nd
<i>cis</i> -1,2-Dichloroethene	1.0	nd	nd
Chloroform	1.0	nd	nd
1,1,1-Trichloroethane (TCA)	1.0	nd	nd
Carbon tetrachloride	1.0	nd	nd
1,1-Dichloropropene	1.0	nd	nd
1,2-Dichloroethane (EDC)	1.0	nd	nd
Trichloroethene (TCE)	1.0	nd	nd
1,2-Dichloropropane	1.0	nd	nd
<i>cis</i> -1,3-Dichloropropene	1.0	nd	nd
<i>Trans</i> -1,3-Dichloropropene	1.0	nd	nd
1,1,2-Trichloroethane	1.0	nd	nd
Tetrachloroethene (PCE)	1.0	nd	nd
2-Chlorotoluene	1.0	nd	nd
4-Chlorotoluene	1.0	nd	nd
1,3-Dichlorobenzene	1.0	nd	nd
1,4-Dichlorobenzene	1.0	nd	nd
1,2-Dichlorobenzene	1.0	nd	nd
Surrogate Recovery			
Dibromofluoromethane	107	107	97
1,2-Dichloroethane-d4	132	128	125
Toluene-d8	91	89	90
4-Bromofluorobenzene	97	84	93

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Sherry Chilcutt

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT  
 G-Logics, Inc.  
 Issaquah, Washington  
 Libby Project # L140922-40  
 Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: Baker Tank 923							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	
1,1-Dichloroethene	10	8.6	86	10	8.5	85	1.2
Chlorobenzene	10	7.7	77	10	8.5	85	9.9
Trichloroethene (TCE)	10	9.1	91	10	9.3	93	2.2
Surrogate Recovery							
Dibromofluoromethane			111			103	
1,2-Dichloroethane-d4			133			122	
Toluene-d8			90			79	
4-Bromofluorobenzene			91			92	

Laboratory Control Sample			
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)
1,1-Dichloroethene	10	7.4	74
Chlorobenzene	10	8.5	85
Trichloroethene (TCE)	10	8.6	86
Surrogate Recovery			
Dibromofluoromethane			103
1,2-Dichloroethane-d4			128
Toluene-d8			89
4-Bromofluorobenzene			100

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
 ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Sherry Chilcutt



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**G-Logics**  
Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**  
**Lab ID: 1409300**

September 30, 2014

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 6 sample(s) on 9/25/2014 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***  
***Gasoline by NWTPH-Gx***  
***Mercury by EPA Method 245.1***  
***Sample Moisture (Percent Moisture)***  
***Total Metals by EPA Method 200.8***  
***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway  
President



Date: 09/30/2014

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**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1409300

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1409300-001	Baker0A1737-092514	09/25/2014 10:30 AM	09/25/2014 12:24 PM
1409300-002	NSwale-092514	09/25/2014 10:45 AM	09/25/2014 12:24 PM
1409300-003	Exc-GW-092514	09/25/2014 10:50 AM	09/25/2014 12:24 PM
1409300-004	SP-1	09/25/2014 12:00 AM	09/25/2014 12:24 PM
1409300-005	SP-2	09/25/2014 12:00 AM	09/25/2014 12:24 PM
1409300-006	SP-3	09/25/2014 12:00 AM	09/25/2014 12:24 PM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics

**Project:** Gilman Square

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-001

**Matrix:** Water

**Client Sample ID:** Baker0A1737-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037

Analyst: EM

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Chloromethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Vinyl chloride	ND	0.200		µg/L	1	9/26/2014 12:09:00 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Chloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Methylene chloride	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/26/2014 12:09:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Chloroform	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Carbon tetrachloride	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/26/2014 12:09:00 AM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Bromodichloromethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Dibromochloromethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Chlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
2-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
4-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/26/2014 12:09:00 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-001

**Matrix:** Water

**Client Sample ID:** Baker0A1737-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037      Analyst: EM

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/26/2014 12:09:00 AM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/26/2014 12:09:00 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/26/2014 12:09:00 AM
Surr: Dibromofluoromethane	103	61.7-130		%REC	1	9/26/2014 12:09:00 AM
Surr: Toluene-d8	100	40.1-139		%REC	1	9/26/2014 12:09:00 AM
Surr: 1-Bromo-4-fluorobenzene	101	68.2-127		%REC	1	9/26/2014 12:09:00 AM

**Mercury by EPA Method 245.1**

Batch ID: 8849      Analyst: MW

Mercury	ND	0.100		µg/L	1	9/25/2014 5:12:05 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 8843      Analyst: TN

Arsenic	2.74	1.00		µg/L	1	9/25/2014 4:41:01 PM
Cadmium	0.216	0.200		µg/L	1	9/25/2014 4:41:01 PM
Chromium	9.30	0.500		µg/L	1	9/25/2014 4:41:01 PM
Lead	20.4	1.00		µg/L	1	9/25/2014 4:41:01 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-002

**Matrix:** Water

**Client Sample ID:** NSwale-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037

Analyst: EM

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Chloromethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Vinyl chloride	ND	0.200		µg/L	1	9/26/2014 12:37:00 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Chloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Methylene chloride	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/26/2014 12:37:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Chloroform	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Carbon tetrachloride	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/26/2014 12:37:00 AM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Bromodichloromethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Dibromochloromethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Chlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
2-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
4-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/26/2014 12:37:00 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-002

**Matrix:** Water

**Client Sample ID:** NSwale-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037      Analyst: EM

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/26/2014 12:37:00 AM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/26/2014 12:37:00 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/26/2014 12:37:00 AM
Surr: Dibromofluoromethane	99.6	61.7-130		%REC	1	9/26/2014 12:37:00 AM
Surr: Toluene-d8	95.4	40.1-139		%REC	1	9/26/2014 12:37:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	68.2-127		%REC	1	9/26/2014 12:37:00 AM

**Mercury by EPA Method 245.1**

Batch ID: 8849      Analyst: MW

Mercury	ND	0.100		µg/L	1	9/25/2014 5:13:45 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 8843      Analyst: TN

Arsenic	1.52	1.00		µg/L	1	9/25/2014 4:44:26 PM
Cadmium	ND	0.200		µg/L	1	9/25/2014 4:44:26 PM
Chromium	1.18	0.500		µg/L	1	9/25/2014 4:44:26 PM
Lead	ND	1.00		µg/L	1	9/25/2014 4:44:26 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:50:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-003

**Matrix:** Water

**Client Sample ID:** Exc-GW-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037

Analyst: EM

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Chloromethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Vinyl chloride	ND	0.200		µg/L	1	9/26/2014 1:05:00 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Chloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Methylene chloride	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/26/2014 1:05:00 AM
cis-1,2-Dichloroethene	1.09	1.00		µg/L	1	9/26/2014 1:05:00 AM
Chloroform	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Carbon tetrachloride	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/26/2014 1:05:00 AM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Bromodichloromethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Dibromochloromethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Chlorobenzene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
2-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
4-Chlorotoluene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/26/2014 1:05:00 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics

**Collection Date:** 9/25/2014 10:50:00 AM

**Project:** Gilman Square

**Lab ID:** 1409300-003

**Matrix:** Water

**Client Sample ID:** Exc-GW-092514

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17037      Analyst: EM

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/26/2014 1:05:00 AM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/26/2014 1:05:00 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/26/2014 1:05:00 AM
Surr: Dibromofluoromethane	101	61.7-130		%REC	1	9/26/2014 1:05:00 AM
Surr: Toluene-d8	97.6	40.1-139		%REC	1	9/26/2014 1:05:00 AM
Surr: 1-Bromo-4-fluorobenzene	100	68.2-127		%REC	1	9/26/2014 1:05:00 AM

**Mercury by EPA Method 245.1**

Batch ID: 8849      Analyst: MW

Mercury	ND	0.100		µg/L	1	9/25/2014 5:15:26 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 8843      Analyst: TN

Arsenic	1.86	1.00		µg/L	1	9/25/2014 4:47:52 PM
Cadmium	ND	0.200		µg/L	1	9/25/2014 4:47:52 PM
Chromium	5.24	0.500		µg/L	1	9/25/2014 4:47:52 PM
Lead	1.96	1.00		µg/L	1	9/25/2014 4:47:52 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-004  
**Client Sample ID:** SP-1

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 8846

Analyst: AK

Diesel (Fuel Oil)	ND	21.2		mg/Kg-dry	1	9/25/2014 8:26:00 PM
Heavy Oil	ND	53.1		mg/Kg-dry	1	9/25/2014 8:26:00 PM
Surr: 2-Fluorobiphenyl	92.7	50-150		%REC	1	9/25/2014 8:26:00 PM
Surr: o-Terphenyl	83.8	50-150		%REC	1	9/25/2014 8:26:00 PM

**Gasoline by NWTPH-Gx**

Batch ID: 8878

Analyst: BC

Gasoline	ND	4.88		mg/Kg-dry	1	9/30/2014 10:25:00 AM
Surr: Toluene-d8	92.2	65-135		%REC	1	9/30/2014 10:25:00 AM
Surr: 4-Bromofluorobenzene	106	65-135		%REC	1	9/30/2014 10:25:00 AM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0584		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Chloromethane	ND	0.0584		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Vinyl chloride	ND	0.00195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Bromomethane	ND	0.0877		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Chloroethane	ND	0.0584		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1-Dichloroethene	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Methylene chloride	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
trans-1,2-Dichloroethene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1-Dichloroethane	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
2,2-Dichloropropane	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
cis-1,2-Dichloroethene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Chloroform	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1-Dichloropropene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Carbon tetrachloride	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2-Dichloroethane (EDC)	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Benzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Trichloroethene (TCE)	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2-Dichloropropane	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Bromodichloromethane	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-004  
**Client Sample ID:** SP-1

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dibromomethane	ND	0.0390		mg/Kg-dry	1	9/27/2014 3:11:00 AM
cis-1,3-Dichloropropene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Toluene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
trans-1,3-Dichloropropylene	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1,2-Trichloroethane	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,3-Dichloropropane	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Tetrachloroethene (PCE)	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Dibromochloromethane	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2-Dibromoethane (EDB)	ND	0.00487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Chlorobenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Ethylbenzene	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
m,p-Xylene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
o-Xylene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Styrene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Isopropylbenzene	ND	0.0779		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Bromoform	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
n-Propylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Bromobenzene	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,3,5-Trimethylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
2-Chlorotoluene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
4-Chlorotoluene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
tert-Butylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2,3-Trichloropropane	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2,4-Trichlorobenzene	ND	0.0487		mg/Kg-dry	1	9/27/2014 3:11:00 AM
sec-Butylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
4-Isopropyltoluene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,3-Dichlorobenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,4-Dichlorobenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
n-Butylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2-Dichlorobenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2-Dibromo-3-chloropropane	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2,4-Trimethylbenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Hexachlorobutadiene	ND	0.0974		mg/Kg-dry	1	9/27/2014 3:11:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-004  
**Client Sample ID:** SP-1

**Collection Date:** 9/25/2014  
**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Volatile Organic Compounds by EPA Method 8260</u></b>					Batch ID: 8863	Analyst: BC
Naphthalene	ND	0.0292		mg/Kg-dry	1	9/27/2014 3:11:00 AM
1,2,3-Trichlorobenzene	ND	0.0195		mg/Kg-dry	1	9/27/2014 3:11:00 AM
Surr: Dibromofluoromethane	102	63.7-129		%REC	1	9/27/2014 3:11:00 AM
Surr: Toluene-d8	102	64.3-131		%REC	1	9/27/2014 3:11:00 AM
Surr: 1-Bromo-4-fluorobenzene	97.8	63.1-141		%REC	1	9/27/2014 3:11:00 AM
<b><u>Sample Moisture (Percent Moisture)</u></b>					Batch ID: R17028	Analyst: SL
Percent Moisture	9.58			wt%	1	9/25/2014 3:59:17 PM

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-005  
**Client Sample ID:** SP-2

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 8846

Analyst: AK

Diesel (Fuel Oil)	ND	22.2		mg/Kg-dry	1	9/25/2014 8:57:00 PM
Heavy Oil	ND	55.6		mg/Kg-dry	1	9/25/2014 8:57:00 PM
Surr: 2-Fluorobiphenyl	93.2	50-150		%REC	1	9/25/2014 8:57:00 PM
Surr: o-Terphenyl	90.9	50-150		%REC	1	9/25/2014 8:57:00 PM

**Gasoline by NWTPH-Gx**

Batch ID: 8878

Analyst: BC

Gasoline	ND	4.66		mg/Kg-dry	1	9/30/2014 11:20:00 AM
Surr: Toluene-d8	93.9	65-135		%REC	1	9/30/2014 11:20:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	9/30/2014 11:20:00 AM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0559		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Chloromethane	ND	0.0559		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Vinyl chloride	ND	0.00186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Bromomethane	ND	0.0838		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Chloroethane	ND	0.0559		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1-Dichloroethene	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Methylene chloride	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
trans-1,2-Dichloroethene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1-Dichloroethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
2,2-Dichloropropane	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
cis-1,2-Dichloroethene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Chloroform	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1-Dichloropropene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Carbon tetrachloride	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2-Dichloroethane (EDC)	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Benzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Trichloroethene (TCE)	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2-Dichloropropane	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Bromodichloromethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-005  
**Client Sample ID:** SP-2

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dibromomethane	ND	0.0373		mg/Kg-dry	1	9/27/2014 4:09:00 AM
cis-1,3-Dichloropropene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Toluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
trans-1,3-Dichloropropylene	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1,2-Trichloroethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,3-Dichloropropane	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Tetrachloroethene (PCE)	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Dibromochloromethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2-Dibromoethane (EDB)	ND	0.00466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Chlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Ethylbenzene	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
m,p-Xylene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
o-Xylene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Styrene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Isopropylbenzene	ND	0.0745		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Bromoform	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
n-Propylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Bromobenzene	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,3,5-Trimethylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
2-Chlorotoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
4-Chlorotoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
tert-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2,3-Trichloropropane	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2,4-Trichlorobenzene	ND	0.0466		mg/Kg-dry	1	9/27/2014 4:09:00 AM
sec-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
4-Isopropyltoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,3-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,4-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
n-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2-Dibromo-3-chloropropane	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2,4-Trimethylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Hexachlorobutadiene	ND	0.0931		mg/Kg-dry	1	9/27/2014 4:09:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

Client: G-Logics  
 Project: Gilman Square  
 Lab ID: 1409300-005  
 Client Sample ID: SP-2

Collection Date: 9/25/2014

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Naphthalene	ND	0.0279		mg/Kg-dry	1	9/27/2014 4:09:00 AM
1,2,3-Trichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 4:09:00 AM
Surr: Dibromofluoromethane	100	63.7-129		%REC	1	9/27/2014 4:09:00 AM
Surr: Toluene-d8	104	64.3-131		%REC	1	9/27/2014 4:09:00 AM
Surr: 1-Bromo-4-fluorobenzene	96.6	63.1-141		%REC	1	9/27/2014 4:09:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R17028

Analyst: SL

Percent Moisture	11.1			wt%	1	9/25/2014 3:59:17 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-006  
**Client Sample ID:** SP-3

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 8846

Analyst: AK

Diesel (Fuel Oil)	ND	21.5		mg/Kg-dry	1	9/25/2014 9:28:00 PM
Heavy Oil	ND	53.8		mg/Kg-dry	1	9/25/2014 9:28:00 PM
Surr: 2-Fluorobiphenyl	91.6	50-150		%REC	1	9/25/2014 9:28:00 PM
Surr: o-Terphenyl	83.1	50-150		%REC	1	9/25/2014 9:28:00 PM

**Gasoline by NWTPH-Gx**

Batch ID: 8878

Analyst: BC

Gasoline	ND	4.65		mg/Kg-dry	1	9/30/2014 11:48:00 AM
Surr: Toluene-d8	93.7	65-135		%REC	1	9/30/2014 11:48:00 AM
Surr: 4-Bromofluorobenzene	102	65-135		%REC	1	9/30/2014 11:48:00 AM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0558		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Chloromethane	ND	0.0558		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Vinyl chloride	ND	0.00186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Bromomethane	ND	0.0837		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Chloroethane	ND	0.0558		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1-Dichloroethene	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Methylene chloride	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
trans-1,2-Dichloroethene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1-Dichloroethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
2,2-Dichloropropane	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
cis-1,2-Dichloroethene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Chloroform	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1-Dichloropropene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Carbon tetrachloride	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2-Dichloroethane (EDC)	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Benzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Trichloroethene (TCE)	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2-Dichloropropane	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Bromodichloromethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1409300-006  
**Client Sample ID:** SP-3

**Collection Date:** 9/25/2014

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Dibromomethane	ND	0.0372		mg/Kg-dry	1	9/27/2014 6:04:00 AM
cis-1,3-Dichloropropene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Toluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
trans-1,3-Dichloropropylene	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1,2-Trichloroethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,3-Dichloropropane	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Tetrachloroethene (PCE)	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Dibromochloromethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2-Dibromoethane (EDB)	ND	0.00465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Chlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Ethylbenzene	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
m,p-Xylene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
o-Xylene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Styrene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Isopropylbenzene	ND	0.0744		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Bromoform	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
n-Propylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Bromobenzene	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,3,5-Trimethylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
2-Chlorotoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
4-Chlorotoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
tert-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2,3-Trichloropropane	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2,4-Trichlorobenzene	ND	0.0465		mg/Kg-dry	1	9/27/2014 6:04:00 AM
sec-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
4-Isopropyltoluene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,3-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,4-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
n-Butylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2-Dichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2-Dibromo-3-chloropropane	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2,4-Trimethylbenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Hexachlorobutadiene	ND	0.0930		mg/Kg-dry	1	9/27/2014 6:04:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409300

Date Reported: 9/30/2014

Client: G-Logics  
 Project: Gilman Square  
 Lab ID: 1409300-006  
 Client Sample ID: SP-3

Collection Date: 9/25/2014

Matrix: Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8863

Analyst: BC

Naphthalene	ND	0.0279		mg/Kg-dry	1	9/27/2014 6:04:00 AM
1,2,3-Trichlorobenzene	ND	0.0186		mg/Kg-dry	1	9/27/2014 6:04:00 AM
Surr: Dibromofluoromethane	106	63.7-129		%REC	1	9/27/2014 6:04:00 AM
Surr: Toluene-d8	103	64.3-131		%REC	1	9/27/2014 6:04:00 AM
Surr: 1-Bromo-4-fluorobenzene	98.9	63.1-141		%REC	1	9/27/2014 6:04:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R17028

Analyst: SL

Percent Moisture	9.58			wt%	1	9/25/2014 3:59:17 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



Work Order: 1409300  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>MB-8843</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>9/25/2014</b>	RunNo: <b>17032</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>8843</b>					Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341329</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Cadmium	ND	0.200									
Chromium	ND	0.500									
Lead	ND	1.00									

Sample ID: <b>LCS-8843</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>9/25/2014</b>	RunNo: <b>17032</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>8843</b>					Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341330</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	92.5	1.00	100.0	0	92.5	85	115				
Cadmium	4.65	0.200	5.000	0	93.0	85	115				
Chromium	102	0.500	100.0	0	102	85	115				
Lead	46.7	1.00	50.00	0	93.4	85	115				

Sample ID: <b>1409278-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>				Prep Date: <b>9/25/2014</b>	RunNo: <b>17032</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>8843</b>					Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341332</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00						1.410	55.5	30	
Cadmium	ND	0.200						0		30	
Chromium	1.85	0.500						1.675	10.1	30	
Lead	ND	1.00						0		30	

**Qualifiers:** B Analyte detected in the associated Method Blank  
 D Dilution was required  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits  
 ND Not detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 RL Reporting Limit  
 S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>1409278-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17032</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8843</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341334</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	483	1.00	500.0	1.410	96.2	70	130				
Cadmium	24.5	0.200	25.00	0.03850	98.0	70	130				
Chromium	541	0.500	500.0	1.675	108	70	130				
Lead	241	1.00	250.0	0.5395	96.0	70	130				

Sample ID: <b>1409278-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17032</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8843</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341334</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	481	1.00	500.0	1.410	95.9	70	130	482.5	0.326	30	
Cadmium	25.9	0.200	25.00	0.03850	103	70	130	24.54	5.36	30	
Chromium	525	0.500	500.0	1.675	105	70	130	541.4	3.06	30	
Lead	242	1.00	250.0	0.5395	96.7	70	130	240.6	0.698	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Mercury by EPA Method 245.1**

Sample ID: <b>MB-8849</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17033</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8849</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341310</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.100

Sample ID: <b>LCS-8849</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17033</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8849</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341314</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.54 0.100 2.500 0 102 85 115

Sample ID: <b>1409290-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17033</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8849</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341316</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury ND 0.100 0 20

Sample ID: <b>1409290-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17033</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8849</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341317</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.47 0.100 2.500 0 98.8 80 120

Sample ID: <b>1409290-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17033</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>8849</b>	Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341318</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Mercury 2.49 0.100 2.500 0 99.6 80 120 2.470 0.806 20

**Qualifiers:** B Analyte detected in the associated Method Blank  
 D Dilution was required  
 E Value above quantitation range  
 H Holding times for preparation or analysis exceeded  
 J Analyte detected below quantitation limits  
 ND Not detected at the Reporting Limit  
 R RPD outside accepted recovery limits  
 RL Reporting Limit  
 S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID: <b>MB-8846</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17030</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8846</b>		Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341270</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	18.3		20.00		91.7	50	150				
Surr: o-Terphenyl	14.4		20.00		71.9	50	150				

Sample ID: <b>LCS-8846</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17030</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8846</b>		Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341414</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	443	20.0	500.0	0	88.7	65	135				
Surr: 2-Fluorobiphenyl	21.1		20.00		106	50	150				
Surr: o-Terphenyl	17.4		20.00		86.8	50	150				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID: <b>1409300-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17117</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>8878</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342810</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	4.88						0		30	
Surr: Toluene-d8	2.21		2.439		90.6	65	135		0		
Surr: 4-Bromofluorobenzene	2.47		2.439		101	65	135		0		

Sample ID: <b>LCS-8878</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17117</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8878</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342815</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	23.0	5.00	25.00	0	92.1	65	135				
Surr: Toluene-d8	2.38		2.500		95.3	65	135				
Surr: 4-Bromofluorobenzene	2.44		2.500		97.6	65	135				

Sample ID: <b>MB-8878</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17117</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8878</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342816</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	2.40		2.500		95.9	65	135				
Surr: 4-Bromofluorobenzene	2.45		2.500		97.9	65	135				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409300-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342603</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0584						0		30	
Chloromethane	ND	0.0584						0		30	
Vinyl chloride	ND	0.00195						0		30	
Bromomethane	ND	0.0877						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0487						0		30	
Chloroethane	ND	0.0584						0		30	
1,1-Dichloroethene	ND	0.0487						0		30	
Methylene chloride	ND	0.0195						0		30	
trans-1,2-Dichloroethene	ND	0.0195						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0487						0		30	
1,1-Dichloroethane	ND	0.0195						0		30	
2,2-Dichloropropane	ND	0.0487						0		30	
cis-1,2-Dichloroethene	ND	0.0195						0		30	
Chloroform	ND	0.0195						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0195						0		30	
1,1-Dichloropropene	ND	0.0195						0		30	
Carbon tetrachloride	ND	0.0195						0		30	
1,2-Dichloroethane (EDC)	ND	0.0292						0		30	
Benzene	ND	0.0195						0		30	
Trichloroethene (TCE)	ND	0.0195						0		30	
1,2-Dichloropropane	ND	0.0195						0		30	
Bromodichloromethane	ND	0.0195						0		30	
Dibromomethane	ND	0.0390						0		30	
cis-1,3-Dichloropropene	ND	0.0195						0		30	
Toluene	ND	0.0195						0		30	
trans-1,3-Dichloropropylene	ND	0.0292						0		30	
1,1,2-Trichloroethane	ND	0.0292						0		30	
1,3-Dichloropropane	ND	0.0487						0		30	
Tetrachloroethene (PCE)	ND	0.0195						0		30	

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409300-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342603</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromochloromethane	ND	0.0292						0		30	
1,2-Dibromoethane (EDB)	ND	0.00487						0		30	
Chlorobenzene	ND	0.0195						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0292						0		30	
Ethylbenzene	ND	0.0292						0		30	
m,p-Xylene	ND	0.0195						0		30	
o-Xylene	ND	0.0195						0		30	
Styrene	ND	0.0195						0		30	
Isopropylbenzene	ND	0.0779						0		30	
Bromoform	ND	0.0195						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0195						0		30	
n-Propylbenzene	ND	0.0195						0		30	
Bromobenzene	ND	0.0292						0		30	
1,3,5-Trimethylbenzene	ND	0.0195						0		30	
2-Chlorotoluene	ND	0.0195						0		30	
4-Chlorotoluene	ND	0.0195						0		30	
tert-Butylbenzene	ND	0.0195						0		30	
1,2,3-Trichloropropane	ND	0.0195						0		30	
1,2,4-Trichlorobenzene	ND	0.0487						0		30	
sec-Butylbenzene	ND	0.0195						0		30	
4-Isopropyltoluene	ND	0.0195						0		30	
1,3-Dichlorobenzene	ND	0.0195						0		30	
1,4-Dichlorobenzene	ND	0.0195						0		30	
n-Butylbenzene	ND	0.0195						0		30	
1,2-Dichlorobenzene	ND	0.0195						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0292						0		30	
1,2,4-Trimethylbenzene	ND	0.0195						0		30	
Hexachlorobutadiene	ND	0.0974						0		30	
Naphthalene	ND	0.0292						0		30	

**Qualifiers:** B Analyte detected in the associated Method Blank      D Dilution was required      E Value above quantitation range  
 H Holding times for preparation or analysis exceeded      J Analyte detected below quantitation limits      ND Not detected at the Reporting Limit  
 R RPD outside accepted recovery limits      RL Reporting Limit      S Spike recovery outside accepted recovery limits



**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409300-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-1</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342603</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,3-Trichlorobenzene	ND	0.0195						0		30	
Surr: Dibromofluoromethane	2.71		2.435		111	63.7	129		0		
Surr: Toluene-d8	2.46		2.435		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	2.41		2.435		98.9	63.1	141		0		

Sample ID: <b>1409300-005BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-2</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342604</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	1.00	0.0559	0.9313	0	108	43.5	121				
Chloromethane	0.994	0.0559	0.9313	0	107	45	130				
Vinyl chloride	1.10	0.00186	0.9313	0	118	51.2	146				
Bromomethane	0.979	0.0838	0.9313	0	105	21.3	120				
Trichlorofluoromethane (CFC-11)	1.09	0.0466	0.9313	0	117	35	131				
Chloroethane	1.01	0.0559	0.9313	0	108	43.8	117				
1,1-Dichloroethene	1.22	0.0466	0.9313	0	131	61.9	141				
Methylene chloride	1.03	0.0186	0.9313	0	110	54.7	142				
trans-1,2-Dichloroethene	1.01	0.0186	0.9313	0	109	52	136				
Methyl tert-butyl ether (MTBE)	0.970	0.0466	0.9313	0	104	54.4	132				
1,1-Dichloroethane	1.14	0.0186	0.9313	0	122	51.8	141				
2,2-Dichloropropane	0.807	0.0466	0.9313	0	86.6	36	123				
cis-1,2-Dichloroethene	1.14	0.0186	0.9313	0	123	58.6	136				
Chloroform	1.08	0.0186	0.9313	0	116	53.2	129				
1,1,1-Trichloroethane (TCA)	0.969	0.0186	0.9313	0	104	58.3	145				
1,1-Dichloropropene	1.11	0.0186	0.9313	0	119	55.1	138				
Carbon tetrachloride	1.05	0.0186	0.9313	0	113	53.3	144				
1,2-Dichloroethane (EDC)	1.12	0.0279	0.9313	0	121	51.3	139				
Benzene	1.01	0.0186	0.9313	0	108	63.5	133				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409300-005BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-2</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342604</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	1.20	0.0186	0.9313	0	128	68.6	132				
1,2-Dichloropropane	1.12	0.0186	0.9313	0	120	59	136				
Bromodichloromethane	1.03	0.0186	0.9313	0	111	50.7	141				
Dibromomethane	0.969	0.0373	0.9313	0	104	50.6	137				
cis-1,3-Dichloropropene	0.947	0.0186	0.9313	0	102	50.4	138				
Toluene	0.918	0.0186	0.9313	0	98.6	63.4	132				
trans-1,3-Dichloropropylene	1.01	0.0279	0.9313	0	109	44.1	147				
1,1,2-Trichloroethane	1.13	0.0279	0.9313	0	122	51.6	137				
1,3-Dichloropropane	1.01	0.0466	0.9313	0	108	53.1	134				
Tetrachloroethene (PCE)	1.10	0.0186	0.9313	0	118	35.6	158				
Dibromochloromethane	1.04	0.0279	0.9313	0	111	55.3	140				
1,2-Dibromoethane (EDB)	1.03	0.00466	0.9313	0	111	50.4	136				
Chlorobenzene	0.990	0.0186	0.9313	0	106	60	133				
1,1,1,2-Tetrachloroethane	1.02	0.0279	0.9313	0	110	53.1	142				
Ethylbenzene	1.03	0.0279	0.9313	0	111	54.5	134				
m,p-Xylene	2.04	0.0186	1.863	0	109	53.1	132				
o-Xylene	1.03	0.0186	0.9313	0	110	53.3	139				
Styrene	1.08	0.0186	0.9313	0	116	51.1	132				
Isopropylbenzene	1.06	0.0745	0.9313	0	114	58.9	138				
Bromoform	0.976	0.0186	0.9313	0	105	57.9	130				
1,1,1,2,2-Tetrachloroethane	0.947	0.0186	0.9313	0	102	51.9	131				
n-Propylbenzene	1.04	0.0186	0.9313	0	112	53.6	140				
Bromobenzene	1.04	0.0279	0.9313	0	112	54.2	140				
1,3,5-Trimethylbenzene	1.05	0.0186	0.9313	0	112	51.8	136				
2-Chlorotoluene	1.02	0.0186	0.9313	0	109	51.6	136				
4-Chlorotoluene	1.02	0.0186	0.9313	0	109	50.1	139				
tert-Butylbenzene	1.07	0.0186	0.9313	0	115	50.5	135				
1,2,3-Trichloropropane	1.05	0.0186	0.9313	0	112	50.5	131				
1,2,4-Trichlorobenzene	1.06	0.0466	0.9313	0	114	50.8	130				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409300-005BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>SP-2</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342604</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

sec-Butylbenzene	1.07	0.0186	0.9313	0	114	52.6	141				
4-Isopropyltoluene	1.08	0.0186	0.9313	0	116	52.9	134				
1,3-Dichlorobenzene	0.995	0.0186	0.9313	0	107	52.6	131				
1,4-Dichlorobenzene	0.951	0.0186	0.9313	0	102	52.9	129				
n-Butylbenzene	1.07	0.0186	0.9313	0	115	52.6	130				
1,2-Dichlorobenzene	0.983	0.0186	0.9313	0	106	55.8	129				
1,2-Dibromo-3-chloropropane	0.991	0	0.9313	0	106	40.5	131				
1,2,4-Trimethylbenzene	1.05	0.0186	0.9313	0	113	50.6	137				
Hexachlorobutadiene	1.20	0.0931	0.9313	0	128	40.6	158				
Naphthalene	1.05	0.0279	0.9313	0	112	52.3	124				
1,2,3-Trichlorobenzene	1.03	0.0186	0.9313	0	111	54.4	124				
Surr: Dibromofluoromethane	2.60		2.328		112	63.7	129				
Surr: Toluene-d8	2.41		2.328		104	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.36		2.328		101	63.1	141				

Sample ID: <b>LCS-8863</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342608</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	0.891	0.0600	1.000	0	89.1	37.2	139				
Chloromethane	0.920	0.0600	1.000	0	92.0	38.8	132				
Vinyl chloride	0.904	0.00200	1.000	0	90.4	56.1	130				
Bromomethane	0.924	0.0900	1.000	0	92.4	41.3	148				
Trichlorofluoromethane (CFC-11)	0.923	0.0500	1.000	0	92.3	42.9	147				
Chloroethane	0.904	0.0600	1.000	0	90.4	37.1	144				
1,1-Dichloroethene	1.06	0.0500	1.000	0	106	49.7	142				
Methylene chloride	0.958	0.0200	1.000	0	95.8	46.3	140				
trans-1,2-Dichloroethene	0.932	0.0200	1.000	0	93.2	68	130				

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range  
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-8863</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342608</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.979	0.0500	1.000	0	97.9	59.1	138				
1,1-Dichloroethane	1.06	0.0200	1.000	0	106	65.5	132				
2,2-Dichloropropane	0.759	0.0500	1.000	0	75.9	28.1	149				
cis-1,2-Dichloroethene	1.09	0.0200	1.000	0	109	71.3	135				
Chloroform	1.02	0.0200	1.000	0	102	67.5	129				
1,1,1-Trichloroethane (TCA)	0.888	0.0200	1.000	0	88.8	69	132				
1,1-Dichloropropene	0.990	0.0200	1.000	0	99.0	72.7	131				
Carbon tetrachloride	0.980	0.0200	1.000	0	98.0	63.4	137				
1,2-Dichloroethane (EDC)	1.07	0.0300	1.000	0	107	61.9	136				
Benzene	0.972	0.0200	1.000	0	97.2	64.3	133				
Trichloroethene (TCE)	1.09	0.0200	1.000	0	109	65.5	137				
1,2-Dichloropropane	1.07	0.0200	1.000	0	107	63.2	142				
Bromodichloromethane	0.969	0.0200	1.000	0	96.9	76.1	136				
Dibromomethane	0.918	0.0400	1.000	0	91.8	70	130				
cis-1,3-Dichloropropene	0.952	0.0200	1.000	0	95.2	59.1	143				
Toluene	0.867	0.0200	1.000	0	86.7	67.3	138				
trans-1,3-Dichloropropylene	1.00	0.0300	1.000	0	100	49.2	149				
1,1,2-Trichloroethane	1.11	0.0300	1.000	0	111	74.5	129				
1,3-Dichloropropane	0.993	0.0500	1.000	0	99.3	70	130				
Tetrachloroethene (PCE)	1.03	0.0200	1.000	0	103	52.7	150				
Dibromochloromethane	1.01	0.0300	1.000	0	101	70.6	144				
1,2-Dibromoethane (EDB)	1.01	0.00500	1.000	0	101	70	130				
Chlorobenzene	0.974	0.0200	1.000	0	97.4	76.1	123				
1,1,1,2-Tetrachloroethane	1.02	0.0300	1.000	0	102	74.8	131				
Ethylbenzene	0.998	0.0300	1.000	0	99.8	74	129				
m,p-Xylene	1.97	0.0200	2.000	0	98.5	79.8	128				
o-Xylene	1.01	0.0200	1.000	0	101	72.7	124				
Styrene	1.03	0.0200	1.000	0	103	76.8	130				
Isopropylbenzene	1.01	0.0800	1.000	0	101	70	130				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1409300  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-8863</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342608</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromoform	0.990	0.0200	1.000	0	99.0	67	154				
1,1,2,2-Tetrachloroethane	0.975	0.0200	1.000	0	97.5	60	130				
n-Propylbenzene	0.991	0.0200	1.000	0	99.1	74.8	125				
Bromobenzene	1.03	0.0300	1.000	0	103	49.2	144				
1,3,5-Trimethylbenzene	0.998	0.0200	1.000	0	99.8	74.6	123				
2-Chlorotoluene	0.989	0.0200	1.000	0	98.9	76.7	129				
4-Chlorotoluene	0.987	0.0200	1.000	0	98.7	77.5	125				
tert-Butylbenzene	1.01	0.0200	1.000	0	101	66.2	130				
1,2,3-Trichloropropane	1.08	0.0200	1.000	0	108	67.9	136				
1,2,4-Trichlorobenzene	1.08	0.0500	1.000	0	108	65.6	137				
sec-Butylbenzene	1.00	0.0200	1.000	0	100	75.6	133				
4-Isopropyltoluene	1.02	0.0200	1.000	0	102	76.8	131				
1,3-Dichlorobenzene	1.00	0.0200	1.000	0	100	72.8	128				
1,4-Dichlorobenzene	0.964	0.0200	1.000	0	96.4	72.6	126				
n-Butylbenzene	1.03	0.0200	1.000	0	103	65.3	136				
1,2-Dichlorobenzene	0.999	0.0200	1.000	0	99.9	72.8	126				
1,2-Dibromo-3-chloropropane	1.01	0.0300	1.000	0	101	61.2	139				
1,2,4-Trimethylbenzene	1.01	0.0200	1.000	0	101	77.5	129				
Hexachlorobutadiene	1.19	0.100	1.000	0	119	42	151				
Naphthalene	1.07	0.0300	1.000	0	107	62.3	134				
1,2,3-Trichlorobenzene	1.04	0.0200	1.000	0	104	62.1	140				
Surr: Dibromofluoromethane	2.49		2.500		99.4	63.7	129				
Surr: Toluene-d8	2.52		2.500		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.52		2.500		101	63.1	141				

**Qualifiers:** B Analyte detected in the associated Method Blank  
 H Holding times for preparation or analysis exceeded  
 R RPD outside accepted recovery limits  
 D Dilution was required  
 J Analyte detected below quantitation limits  
 RL Reporting Limit  
 E Value above quantitation range  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-8863</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342609</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0600									
Chloromethane	ND	0.0600									
Vinyl chloride	ND	0.00200									
Bromomethane	ND	0.0900									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.0600									
1,1-Dichloroethene	ND	0.0500									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0200									
2,2-Dichloropropane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0300									
Benzene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
Dibromomethane	ND	0.0400									
cis-1,3-Dichloropropene	ND	0.0200									
Toluene	ND	0.0200									
trans-1,3-Dichloropropylene	ND	0.0300									
1,1,2-Trichloroethane	ND	0.0300									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0200									

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-8863</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342609</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dibromochloromethane	ND	0.0300									
1,2-Dibromoethane (EDB)	ND	0.00500									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Styrene	ND	0.0200									
Isopropylbenzene	ND	0.0800									
Bromoform	ND	0.0200									
1,1,2,2-Tetrachloroethane	ND	0.0200									
n-Propylbenzene	ND	0.0200									
Bromobenzene	ND	0.0300									
1,3,5-Trimethylbenzene	ND	0.0200									
2-Chlorotoluene	ND	0.0200									
4-Chlorotoluene	ND	0.0200									
tert-Butylbenzene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0200									
1,2,4-Trichlorobenzene	ND	0.0500									
sec-Butylbenzene	ND	0.0200									
4-Isopropyltoluene	ND	0.0200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
1,2,4-Trimethylbenzene	ND	0.0200									
Hexachlorobutadiene	ND	0.100									
Naphthalene	ND	0.0300									

<b>Qualifiers:</b> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-8863</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17103</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8863</b>		Analysis Date: <b>9/27/2014</b>	SeqNo: <b>342609</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2,3-Trichlorobenzene	ND	0.0200								
Surr: Dibromofluoromethane	2.63		2.500		105	63.7	129			
Surr: Toluene-d8	2.57		2.500		103	64.3	131			
Surr: 1-Bromo-4-fluorobenzene	2.44		2.500		97.5	63.1	141			

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits



**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409260-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/26/2014</b>	SeqNo: <b>341440</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1.00						0		30	
Chloromethane	ND	1.00						0		30	
Vinyl chloride	ND	0.200						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
2,2-Dichloropropane	ND	2.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropene	ND	1.00						0		30	
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
1,1,2,2-Tetrachloroethane	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	

**Qualifiers:** B Analyte detected in the associated Method Blank      D Dilution was required      E Value above quantitation range  
H Holding times for preparation or analysis exceeded      J Analyte detected below quantitation limits      ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits      RL Reporting Limit      S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409260-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/26/2014</b>	SeqNo: <b>341440</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	50.8		50.00		102	61.7	130		0		
Surr: Toluene-d8	48.6		50.00		97.2	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	52.0		50.00		104	68.2	127		0		

Sample ID: <b>MB-R17037</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341449</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	0.200									
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethane	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
2,2-Dichloropropane	ND	2.00									
cis-1,2-Dichloroethene	ND	1.00									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17037</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341449</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachlorobutadiene	ND	4.00									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	50.5		50.00		101	61.7	130				
Surr: Toluene-d8	49.4		50.00		98.8	40.1	139				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409300  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17037</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/25/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/25/2014</b>	SeqNo: <b>341449</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	50.0		50.00		100	68.2	127				

Sample ID: <b>1409260-005AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/26/2014</b>	SeqNo: <b>341601</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	96.2	1.00	20.00	0	481	33.3	122				S
Chloromethane	36.5	1.00	20.00	0.3000	181	48.2	145				S
Vinyl chloride	34.0	0.200	20.00	0	170	58.1	158				S
Trichlorofluoromethane (CFC-11)	27.1	1.00	20.00	0	136	54.7	138				
Chloroethane	29.4	1.00	20.00	0	147	49.9	143				S
1,1-Dichloroethene	21.2	1.00	20.00	0	106	63	141				
Methylene chloride	19.8	1.00	20.00	0	98.8	61.6	135				
trans-1,2-Dichloroethene	19.4	1.00	20.00	0	96.8	63.5	138				
1,1-Dichloroethane	21.4	1.00	20.00	0	107	67.8	136				
2,2-Dichloropropane	11.2	2.00	20.00	0	56.2	31.5	121				
cis-1,2-Dichloroethene	18.7	1.00	20.00	0	93.3	67.1	123				
Chloroform	19.3	1.00	20.00	0	96.7	66.7	136				
1,1,1-Trichloroethane (TCA)	22.6	1.00	20.00	0	113	64.2	146				
1,1-Dichloropropene	20.4	1.00	20.00	0	102	73.8	136				
Carbon tetrachloride	22.1	1.00	20.00	0	110	62.7	146				
1,2-Dichloroethane	20.2	1.00	20.00	0	101	63.4	137				
Trichloroethene (TCE)	20.0	0.500	20.00	0	100	60.4	134				
1,2-Dichloropropane	18.4	1.00	20.00	0	91.8	62.6	138				
Bromodichloromethane	21.6	1.00	20.00	0	108	59.4	139				
cis-1,3-Dichloropropene	18.9	1.00	20.00	0	94.6	63.8	132				
trans-1,3-Dichloropropene	19.3	1.00	20.00	0	96.3	57.7	125				
1,1,2-Trichloroethane	20.8	1.00	20.00	0	104	59.4	127				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Work Order: 1409300  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409260-005AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/26/2014</b>	RunNo: <b>17037</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17037</b>		Analysis Date: <b>9/26/2014</b>	SeqNo: <b>341601</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichloropropane	19.4	1.00	20.00	0	96.9	64.3	135				
Tetrachloroethene (PCE)	21.5	1.00	20.00	0	107	50.3	133				
Dibromochloromethane	21.2	1.00	20.00	0	106	61.6	139				
Chlorobenzene	20.9	1.00	20.00	0	105	65.8	134				
1,1,1,2-Tetrachloroethane	20.8	1.00	20.00	0	104	65.4	135				
1,1,2,2-Tetrachloroethane	22.6	1.00	20.00	0	113	59.8	146				
2-Chlorotoluene	20.4	1.00	20.00	0	102	61.7	134				
4-Chlorotoluene	20.4	1.00	20.00	0	102	58.4	134				
1,2,3-Trichloropropane	22.0	1.00	20.00	0	110	62.4	129				
1,2,4-Trichlorobenzene	14.1	2.00	20.00	0.9000	66.2	50.9	133				
1,3-Dichlorobenzene	19.9	1.00	20.00	0	99.4	58.2	128				
1,4-Dichlorobenzene	19.1	1.00	20.00	0	95.5	60.1	123				
1,2-Dichlorobenzene	18.6	1.00	20.00	0	93.0	65.4	133				
1,2-Dibromo-3-chloropropane	19.0	1.00	20.00	0.7900	91.2	51.8	142				
Hexachlorobutadiene	18.5	4.00	20.00	0	92.4	58.1	130				
1,2,3-Trichlorobenzene	11.0	4.00	20.00	0	54.9	57	131				S
Surr: Dibromofluoromethane	48.4		50.00		96.8	61.7	130				
Surr: Toluene-d8	49.3		50.00		98.7	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	50.8		50.00		102	68.2	127				

**NOTES:**

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **GL**  
 Logged by: **Erica Silva**

Work Order Number: **1409300**  
 Date Received: **9/25/2014 12:24:00 PM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 5. Custody seals intact on shipping container/cooler? Yes  No  Not Required   
 6. Was an attempt made to cool the samples? Yes  No  NA   
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes  No  NA   
 8. Sample(s) in proper container(s)? Yes  No   
 9. Sufficient sample volume for indicated test(s)? Yes  No   
 10. Are samples properly preserved? Yes  No   
 11. Was preservative added to bottles? Yes  No  NA   
 12. Is the headspace in the VOA vials? Yes  No  NA   
 13. Did all samples containers arrive in good condition(unbroken)? Yes  No   
 14. Does paperwork match bottle labels? Yes  No   
 15. Are matrices correctly identified on Chain of Custody? Yes  No   
 16. Is it clear what analyses were requested? Yes  No   
 17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	6.2	Good
Sample	9.8	Good



# Fremont

ANALYTICAL

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 9/25/14  
Laboratory Project No. (Internal): 1409300

Client: G-Legies  
Address: 40 2nd Ave SE  
City, State, Zip: Issaquah

Tel: 425-391-6874  
Fax:

Project Name: Galena Square  
Location: Issaquah, WA  
Collected by: S Hays

Page: 1 of 1  
Project No: 01-0368-5

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, C = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	SVOC (EPA 8260)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Distillable Oil Range Organics (DOR)	SEMI VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCB (EPA 8092)	Metals** (6020 / 200.9)	Total (T)	Dissolved (D)	Anions (C)**	EDS (8011)	Comments/Depth
1 Blue 041737-092514	9/25	1030	H <sub>2</sub> O	X	X	X	X	X	X	X	X	X	X	X	X	X	X	24-hr Runaround
2 NSUcle-092514		1045		X	X	X	X	X	X	X	X	X	X	X	X	X	X	↓
3 Exc-CW-092514		1050	↓	X	X	X	X	X	X	X	X	X	X	X	X	X	X	3-Day Runaround
4 SP-1			Soil	X	X	X	X	X	X	X	X	X	X	X	X	X	X	↓
5 SP-2				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
6 SP-3				X	X	X	X	X	X	X	X	X	X	X	X	X	X	
7																		
8																		
9																		
10																		

Sample Disposal:  Return to Client  Disposal by Lab (A fee may be assessed if samples are returned after 30 days)

Retained:  Shilve 9/25/14 1034 Date/Time

Revised:  Shilve 9/25/14 1224 Date/Time

TAT -> Same Day Next Day 2 Day 3 Day STD

\*Please coordinate with the lab in advance

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1409351**

October 01, 2014

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 4 sample(s) on 9/30/2014 for the analyses presented in the following report.

***Total Metals by EPA Method 200.8***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1409351

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1409351-001	Exc-GW-093014	09/30/2014 7:50 AM	09/30/2014 9:22 AM
1409351-002	Sswale-093014	09/30/2014 7:55 AM	09/30/2014 9:22 AM
1409351-003	NSwale-093014	09/30/2014 8:00 AM	09/30/2014 9:22 AM
1409351-004	Baker0A1736-093014	09/30/2014 8:05 AM	09/30/2014 9:22 AM

**CLIENT:** G-Logics  
**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 7:50:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-001

**Matrix:** Water

**Client Sample ID:** Exc-GW-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Chloromethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Vinyl chloride	ND	0.200		µg/L	1	9/30/2014 3:47:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Chloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Methylene chloride	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/30/2014 3:47:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Chloroform	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/30/2014 3:47:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Chlorobenzene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/30/2014 3:47:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 7:50:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-001

**Matrix:** Water

**Client Sample ID:** Exc-GW-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/30/2014 3:47:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/30/2014 3:47:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/30/2014 3:47:00 PM
Surr: Dibromofluoromethane	101	61.7-130		%REC	1	9/30/2014 3:47:00 PM
Surr: Toluene-d8	88.2	40.1-139		%REC	1	9/30/2014 3:47:00 PM
Surr: 1-Bromo-4-fluorobenzene	94.6	68.2-127		%REC	1	9/30/2014 3:47:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 7:55:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-002

**Matrix:** Water

**Client Sample ID:** Sswale-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Chloromethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Vinyl chloride	ND	0.200		µg/L	1	9/30/2014 4:17:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Chloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Methylene chloride	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/30/2014 4:17:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Chloroform	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/30/2014 4:17:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Chlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/30/2014 4:17:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 7:55:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-002

**Matrix:** Water

**Client Sample ID:** Sswale-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/30/2014 4:17:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/30/2014 4:17:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/30/2014 4:17:00 PM
Surr: Dibromofluoromethane	102	61.7-130		%REC	1	9/30/2014 4:17:00 PM
Surr: Toluene-d8	88.9	40.1-139		%REC	1	9/30/2014 4:17:00 PM
Surr: 1-Bromo-4-fluorobenzene	94.6	68.2-127		%REC	1	9/30/2014 4:17:00 PM

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RL Reporting Limit

- D Dilution was required
- H Holding times for preparation or analysis exceeded
- ND Not detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 8:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-003

**Matrix:** Water

**Client Sample ID:** NSwale-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Chloromethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Vinyl chloride	ND	0.200		µg/L	1	9/30/2014 4:47:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Chloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Methylene chloride	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/30/2014 4:47:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Chloroform	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/30/2014 4:47:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Chlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/30/2014 4:47:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 8:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-003

**Matrix:** Water

**Client Sample ID:** NSwale-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/30/2014 4:47:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/30/2014 4:47:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/30/2014 4:47:00 PM
Surr: Dibromofluoromethane	102	61.7-130		%REC	1	9/30/2014 4:47:00 PM
Surr: Toluene-d8	91.5	40.1-139		%REC	1	9/30/2014 4:47:00 PM
Surr: 1-Bromo-4-fluorobenzene	95.7	68.2-127		%REC	1	9/30/2014 4:47:00 PM

**Total Metals by EPA Method 200.8**

Batch ID: 8879

Analyst: TN

Arsenic	2.88	1.00		µg/L	1	9/30/2014 4:08:04 PM
Chromium	5.84	0.500		µg/L	1	9/30/2014 4:08:04 PM
Lead	1.57	1.00		µg/L	1	9/30/2014 4:08:04 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 8:05:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-004

**Matrix:** Water

**Client Sample ID:** Baker0A1736-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129

Analyst: BC

Dichlorodifluoromethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Chloromethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Vinyl chloride	ND	0.200		µg/L	1	9/30/2014 5:16:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Chloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Methylene chloride	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	9/30/2014 5:16:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Chloroform	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/30/2014 5:16:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Chlorobenzene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	9/30/2014 5:16:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1409351

Date Reported: 10/1/2014

**Client:** G-Logics

**Collection Date:** 9/30/2014 8:05:00 AM

**Project:** Gilman Square

**Lab ID:** 1409351-004

**Matrix:** Water

**Client Sample ID:** Baker0A1736-093014

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17129      Analyst: BC

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	9/30/2014 5:16:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	9/30/2014 5:16:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	9/30/2014 5:16:00 PM
Surr: Dibromofluoromethane	103	61.7-130		%REC	1	9/30/2014 5:16:00 PM
Surr: Toluene-d8	90.7	40.1-139		%REC	1	9/30/2014 5:16:00 PM
Surr: 1-Bromo-4-fluorobenzene	94.1	68.2-127		%REC	1	9/30/2014 5:16:00 PM

**Total Metals by EPA Method 200.8**

Batch ID: 8879      Analyst: TN

Arsenic	3.60	1.00		µg/L	1	9/30/2014 4:58:55 PM
Chromium	6.40	0.500		µg/L	1	9/30/2014 4:58:55 PM
Lead	8.26	1.00		µg/L	1	9/30/2014 4:58:55 PM

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>MB-8879</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>8879</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343212</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Chromium	ND	0.500									
Lead	ND	1.00									

Sample ID: <b>LCS-8879</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>8879</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343213</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	104	1.00	100.0	0	104	85	115				
Chromium	113	0.500	100.0	0	113	85	115				
Lead	47.0	1.00	50.00	0	93.9	85	115				

Sample ID: <b>1409351-003BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>NSwale-093014</b>	Batch ID: <b>8879</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343215</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	2.91	1.00						2.884	0.812	30	
Chromium	6.32	0.500						5.840	7.88	30	
Lead	1.61	1.00						1.568	2.43	30	

Sample ID: <b>1409351-003BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>NSwale-093014</b>	Batch ID: <b>8879</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343274</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	542	1.00	500.0	2.884	108	70	130				
Chromium	544	0.500	500.0	5.840	108	70	130				
Lead	236	1.00	250.0	1.568	93.7	70	130				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>1409351-003BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>NSwale-093014</b>	Batch ID: <b>8879</b>	Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343274</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>1409351-003BMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17145</b>							
Client ID: <b>NSwale-093014</b>	Batch ID: <b>8879</b>	Analysis Date: <b>9/30/2014</b>	SeqNo: <b>343275</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	528	1.00	500.0	2.884	105	70	130	542.4	2.62	30	
Chromium	538	0.500	500.0	5.840	106	70	130	544.3	1.26	30	
Lead	234	1.00	250.0	1.568	93.2	70	130	235.8	0.579	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409322-001FDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342883</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	1.00						0		30	
Chloromethane	ND	1.00						0		30	
Vinyl chloride	ND	0.200						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
2,2-Dichloropropane	ND	2.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropene	ND	1.00						0		30	
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
1,1,2,2-Tetrachloroethane	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409322-001FDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342883</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	50.1		50.00		100	61.7	130		0		
Surr: Toluene-d8	45.4		50.00		90.9	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	48.0		50.00		96.0	68.2	127		0		

Sample ID: <b>1409335-025AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342895</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	16.8	1.00	20.00	0	83.8	33.3	122				
Chloromethane	ND	1.00	20.00	0	0	48.2	145				S
Vinyl chloride	175	0.200	20.00	198.9	-118	58.1	158				SE
Trichlorofluoromethane (CFC-11)	17.2	1.00	20.00	0	85.8	54.7	138				
Chloroethane	228	1.00	20.00	557.3	-1,650	49.9	143				SE
1,1-Dichloroethene	21.4	1.00	20.00	0.1866	106	63	141				
Methylene chloride	21.8	1.00	20.00	1.356	102	61.6	135				
trans-1,2-Dichloroethene	62.5	1.00	20.00	38.62	119	63.5	138				
1,1-Dichloroethane	84.3	1.00	20.00	63.61	104	67.8	136				E
2,2-Dichloropropane	16.0	2.00	20.00	0	80.2	31.5	121				
cis-1,2-Dichloroethene	80.9	1.00	20.00	63.12	88.9	67.1	123				E

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409335-025AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342895</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	11.1	1.00	20.00	0	55.7	66.7	136				S
1,1,1-Trichloroethane (TCA)	23.1	1.00	20.00	0	116	64.2	146				
1,1-Dichloropropene	23.2	1.00	20.00	0	116	73.8	136				
Carbon tetrachloride	20.7	1.00	20.00	0	104	62.7	146				
1,2-Dichloroethane	19.2	1.00	20.00	0	95.9	63.4	137				
Trichloroethene (TCE)	23.6	0.500	20.00	0	118	60.4	134				
1,2-Dichloropropane	29.1	1.00	20.00	2.292	134	62.6	138				
Bromodichloromethane	21.7	1.00	20.00	0	109	59.4	139				
cis-1,3-Dichloropropene	22.3	1.00	20.00	0	111	63.8	132				
trans-1,3-Dichloropropene	22.7	1.00	20.00	0	114	57.7	125				
1,1,2-Trichloroethane	24.6	1.00	20.00	0	123	59.4	127				
1,3-Dichloropropane	26.6	1.00	20.00	0	133	64.3	135				
Tetrachloroethene (PCE)	26.3	1.00	20.00	0	132	50.3	133				
Dibromochloromethane	21.2	1.00	20.00	0	106	61.6	139				
Chlorobenzene	22.4	1.00	20.00	0	112	65.8	134				
1,1,1,2-Tetrachloroethane	21.7	1.00	20.00	0	109	65.4	135				
1,1,1,2,2-Tetrachloroethane	21.9	1.00	20.00	0	109	59.8	146				
2-Chlorotoluene	20.4	1.00	20.00	0	102	61.7	134				
4-Chlorotoluene	54.0	1.00	20.00	0	270	58.4	134				S
1,2,3-Trichloropropane	26.1	1.00	20.00	0	131	62.4	129				S
1,2,4-Trichlorobenzene	23.6	2.00	20.00	0	118	50.9	133				
1,3-Dichlorobenzene	25.3	1.00	20.00	0	127	58.2	128				
1,4-Dichlorobenzene	21.2	1.00	20.00	0	106	60.1	123				
1,2-Dichlorobenzene	22.3	1.00	20.00	0	111	65.4	133				
1,2-Dibromo-3-chloropropane	19.9	1.00	20.00	0	99.5	51.8	142				
Hexachlorobutadiene	19.4	4.00	20.00	0	97.2	58.1	130				
1,2,3-Trichlorobenzene	21.8	4.00	20.00	0	109	57	131				
Surr: Dibromofluoromethane	48.3		50.00		96.5	61.7	130				
Surr: Toluene-d8	51.9		50.00		104	40.1	139				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409335-025AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342895</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene      59.8      50.00      120      68.2      127

**NOTES:**

E - Estimated value. The amount exceeds the linear working range of the instrument.  
S - Analyte concentration too high for accurate MS recovery.

Sample ID: <b>1409335-025AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342896</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	17.0	1.00	20.00	0	85.2	33.3	122	16.76	1.60	30	
Chloromethane	ND	1.00	20.00	0	0	48.2	145	0		30	S
Vinyl chloride	164	0.200	20.00	198.9	-173	58.1	158	175.3	6.55	30	SE
Trichlorofluoromethane (CFC-11)	18.7	1.00	20.00	0	93.5	54.7	138	17.16	8.60	30	
Chloroethane	201	1.00	20.00	557.3	-1,780	49.9	143	228.2	12.8	30	SE
1,1-Dichloroethene	22.1	1.00	20.00	0.1866	110	63	141	21.41	3.24	30	
Methylene chloride	21.7	1.00	20.00	1.356	102	61.6	135	21.84	0.657	30	
trans-1,2-Dichloroethene	62.3	1.00	20.00	38.62	118	63.5	138	62.50	0.387	30	
1,1-Dichloroethane	81.8	1.00	20.00	63.61	91.1	67.8	136	84.34	3.02	30	E
2,2-Dichloropropane	17.3	2.00	20.00	0	86.6	31.5	121	16.04	7.73	30	
cis-1,2-Dichloroethene	70.9	1.00	20.00	63.12	38.8	67.1	123	80.91	13.2	30	SE
Chloroform	10.8	1.00	20.00	0	54.0	66.7	136	11.14	3.14	30	S
1,1,1-Trichloroethane (TCA)	23.4	1.00	20.00	0	117	64.2	146	23.13	1.03	30	
1,1-Dichloropropene	23.1	1.00	20.00	0	115	73.8	136	23.21	0.557	30	
Carbon tetrachloride	20.7	1.00	20.00	0	103	62.7	146	20.73	0.237	30	
1,2-Dichloroethane	18.6	1.00	20.00	0	93.1	63.4	137	19.18	3.00	30	
Trichloroethene (TCE)	23.8	0.500	20.00	0	119	60.4	134	23.64	0.749	30	
1,2-Dichloropropane	28.2	1.00	20.00	2.292	130	62.6	138	29.07	2.89	30	
Bromodichloromethane	21.3	1.00	20.00	0	107	59.4	139	21.74	2.02	30	
cis-1,3-Dichloropropene	23.2	1.00	20.00	0	116	63.8	132	22.26	3.97	30	

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Work Order: 1409351  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1409335-025AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>
Client ID: <b>BATCH</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342896</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	23.7	1.00	20.00	0	118	57.7	125	22.74	4.01	30	
1,1,2-Trichloroethane	24.5	1.00	20.00	0	122	59.4	127	24.64	0.793	30	
1,3-Dichloropropane	26.1	1.00	20.00	0	131	64.3	135	26.63	1.93	30	
Tetrachloroethene (PCE)	26.2	1.00	20.00	0	131	50.3	133	26.31	0.575	30	
Dibromochloromethane	21.0	1.00	20.00	0	105	61.6	139	21.20	0.817	30	
Chlorobenzene	22.8	1.00	20.00	0	114	65.8	134	22.38	1.88	30	
1,1,1,2-Tetrachloroethane	22.0	1.00	20.00	0	110	65.4	135	21.74	1.39	30	
1,1,1,2,2-Tetrachloroethane	22.4	1.00	20.00	0	112	59.8	146	21.86	2.48	30	
2-Chlorotoluene	21.1	1.00	20.00	0	105	61.7	134	20.45	3.13	30	
4-Chlorotoluene	53.0	1.00	20.00	0	265	58.4	134	54.01	1.84	30	S
1,2,3-Trichloropropane	26.8	1.00	20.00	0	134	62.4	129	26.12	2.74	30	S
1,2,4-Trichlorobenzene	24.3	2.00	20.00	0	122	50.9	133	23.62	2.91	30	
1,3-Dichlorobenzene	26.1	1.00	20.00	0	130	58.2	128	25.31	2.99	30	S
1,4-Dichlorobenzene	21.9	1.00	20.00	0	110	60.1	123	21.22	3.31	30	
1,2-Dichlorobenzene	23.1	1.00	20.00	0	116	65.4	133	22.29	3.59	30	
1,2-Dibromo-3-chloropropane	22.2	1.00	20.00	0	111	51.8	142	19.89	10.8	30	
Hexachlorobutadiene	20.3	4.00	20.00	0	101	58.1	130	19.43	4.21	30	
1,2,3-Trichlorobenzene	22.4	4.00	20.00	0	112	57	131	21.76	2.84	30	
Surr: Dibromofluoromethane	46.7		50.00		93.4	61.7	130		0	0	
Surr: Toluene-d8	49.9		50.00		99.7	40.1	139		0	0	
Surr: 1-Bromo-4-fluorobenzene	59.7		50.00		119	68.2	127		0	0	

**NOTES:**

E - Estimated value. The amount exceeds the linear working range of the instrument.  
 S - Analyte concentration too high for accurate MS recovery.

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-R17129</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342897</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	19.5	1.00	20.00	0	97.3	43	136				
Chloromethane	19.3	1.00	20.00	0	96.4	43.9	139				
Vinyl chloride	19.9	0.200	20.00	0	99.3	53.6	139				
Trichlorofluoromethane (CFC-11)	19.0	1.00	20.00	0	94.9	63.7	133				
Chloroethane	11.9	1.00	20.00	0	59.6	53	141				
1,1-Dichloroethene	20.8	1.00	20.00	0	104	65.6	136				
Methylene chloride	21.1	1.00	20.00	0	106	67.1	131				
trans-1,2-Dichloroethene	22.7	1.00	20.00	0	114	71.7	129				
1,1-Dichloroethane	23.0	1.00	20.00	0	115	67.9	134				
2,2-Dichloropropane	16.0	2.00	20.00	0	79.9	33.7	152				
cis-1,2-Dichloroethene	22.7	1.00	20.00	0	113	71.1	130				
Chloroform	21.5	1.00	20.00	0	107	76.7	124				
1,1,1-Trichloroethane (TCA)	22.2	1.00	20.00	0	111	71	131				
1,1-Dichloropropene	22.6	1.00	20.00	0	113	74.5	126				
Carbon tetrachloride	20.7	1.00	20.00	0	103	66.2	134				
1,2-Dichloroethane	19.6	1.00	20.00	0	97.8	70	129				
Trichloroethene (TCE)	21.5	0.500	20.00	0	107	65.2	136				
1,2-Dichloropropane	22.7	1.00	20.00	0	113	70.5	130				
Bromodichloromethane	21.3	1.00	20.00	0	107	74.6	127				
cis-1,3-Dichloropropene	20.4	1.00	20.00	0	102	62.6	137				
trans-1,3-Dichloropropene	20.0	1.00	20.00	0	100	58.5	142				
1,1,2-Trichloroethane	20.1	1.00	20.00	0	100	76	124				
1,3-Dichloropropane	23.6	1.00	20.00	0	118	73.5	127				
Tetrachloroethene (PCE)	23.1	1.00	20.00	0	116	47.5	147				
Dibromochloromethane	20.8	1.00	20.00	0	104	67.2	134				
Chlorobenzene	21.2	1.00	20.00	0	106	73.9	126				
1,1,1,2-Tetrachloroethane	20.9	1.00	20.00	0	105	76.8	124				
1,1,2,2-Tetrachloroethane	19.4	1.00	20.00	0	97.1	62.9	132				
2-Chlorotoluene	19.7	1.00	20.00	0	98.6	70.8	130				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-R17129</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342897</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorotoluene	20.9	1.00	20.00	0	105	70.1	131				
1,2,3-Trichloropropane	22.6	1.00	20.00	0	113	67.7	131				
1,2,4-Trichlorobenzene	19.5	2.00	20.00	0	97.3	67.6	129				
1,3-Dichlorobenzene	23.4	1.00	20.00	0	117	72.4	129				
1,4-Dichlorobenzene	20.0	1.00	20.00	0	100	70.6	128				
1,2-Dichlorobenzene	19.5	1.00	20.00	0	97.7	74.2	129				
1,2-Dibromo-3-chloropropane	19.2	1.00	20.00	0	96.1	63.1	136				
Hexachlorobutadiene	18.2	4.00	20.00	0	91.1	58.6	138				
1,2,3-Trichlorobenzene	19.4	4.00	20.00	0	97.1	50.2	139				
Surr: Dibromofluoromethane	52.4		50.00		105	61.7	130				
Surr: Toluene-d8	52.4		50.00		105	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	52.2		50.00		104	68.2	127				

Sample ID: <b>MB-R17129</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342901</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	0.200									
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
2,2-Dichloropropane	ND	2.00									
cis-1,2-Dichloroethene	ND	1.00									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/1/2014

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17129</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342901</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachlorobutadiene	ND	4.00									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	51.5		50.00		103	61.7	130				
Surr: Toluene-d8	47.5		50.00		95.0	40.1	139				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1409351  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17129</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>9/30/2014</b>	RunNo: <b>17129</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17129</b>		Analysis Date: <b>9/30/2014</b>	SeqNo: <b>342901</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	46.4		50.00		92.8	68.2	127				

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range  
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

Client Name: **GL**  
 Logged by: **Erica Silva**

Work Order Number: **1409351**  
 Date Received: **9/30/2014 9:22:00 AM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 5. Custody seals intact on shipping container/cooler? Yes  No  Not Required   
 6. Was an attempt made to cool the samples? Yes  No  NA   
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes  No  NA   
**Samples received straight from field**  
 8. Sample(s) in proper container(s)? Yes  No   
 9. Sufficient sample volume for indicated test(s)? Yes  No   
 10. Are samples properly preserved? Yes  No   
 11. Was preservative added to bottles? Yes  No  NA   
 12. Is the headspace in the VOA vials? Yes  No  NA   
 13. Did all samples containers arrive in good condition(unbroken)? Yes  No   
 14. Does paperwork match bottle labels? Yes  No   
 15. Are matrices correctly identified on Chain of Custody? Yes  No   
 16. Is it clear what analyses were requested? Yes  No   
 17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	12.3	
Sample	13.2	



# Fremont

ANALYTICAL

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103  
Tel: 206-352-3790  
Fax: 206-352-7178

Date: 9/30/14

Laboratory Project No (Internal): 1409351  
Page: 1 of 1

Client: C-Logics  
Address: 403rd Ave SE  
City, State, Zip: Issaquah, WA 98027  
Reports To (PM): S Hyde  
Project Name: Columbia Square  
Location: Issaquah  
Toll: 953-3110734  
Collected by: S Hyde  
Email: S.Hyde@C-Logics.com  
Project No: 01-0005-3

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GV/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HUI-0)	Polycyclic Aromatic Hydrocarbons (PAH) (EPA 8270)	SEM VOL (EPA 8270 - SIM)	PCB (EPA 8082)	Metals** (6020 / 200.8)	Total (T) / Dissolved (D)	Arsenic (Cd)***	EDS (8011)	Comments/Depth
Exc-GD-093014	9/30	0750	UO	X												C1-Solvents Only
SS-Soil-093014		0755		X												
NS-Soil-093014		0800		X												
BLR-DA1736-093014		0805		X												Chromomom, Arsenic, Pb

\*\*Metals Analysis (Circle): MTCA-5 RCB-A-B Priority Pollutants TAL Individual: Ag Al Ar B Ba Bi Br C Cl Cr Cu Fe Hg K Mg Mn Ni Na NH Pb Se Sn Ti Tl U V Zr

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Chlorate Fluoride Iodide/Thio

Sample Disposed:  Return to Client  Disposal by Lab (A=allow) (Sample destroyed after disposal)

Retrieved: 9/30/14 9:02 Received: 9-30-14 9:22

Special Remarks: Sameday Nextday= 2 Day 3 Day STD



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1410085**

October 13, 2014

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 4 sample(s) on 10/10/2014 for the analyses presented in the following report.

***Sample Moisture (Percent Moisture)***  
***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1410085

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1410085-001	NSW-6-6'	10/10/2014 12:30 PM	10/10/2014 1:30 PM
1410085-002	NSW-7-6'	10/10/2014 12:35 PM	10/10/2014 1:30 PM
1410085-003	B-8-7'	10/10/2014 12:40 PM	10/10/2014 1:30 PM
1410085-004	B-9-7'	10/10/2014 12:50 PM	10/10/2014 1:30 PM

**CLIENT:** G-Logics  
**Project:** Gilman Square

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:30:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-001

**Matrix:** Soil

**Client Sample ID:** NSW-6-6'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0804		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Chloromethane	ND	0.0804		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Vinyl chloride	ND	0.00268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0670		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Chloroethane	ND	0.0804		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1-Dichloroethene	ND	0.0670		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Methylene chloride	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
trans-1,2-Dichloroethene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1-Dichloroethane	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
2,2-Dichloropropane	ND	0.0670	Q	mg/Kg-dry	1	10/12/2014 6:38:00 AM
cis-1,2-Dichloroethene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Chloroform	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1-Dichloropropene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Carbon tetrachloride	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2-Dichloroethane (EDC)	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Trichloroethene (TCE)	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2-Dichloropropane	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Bromodichloromethane	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
cis-1,3-Dichloropropene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
trans-1,3-Dichloropropene	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1,2-Trichloroethane	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,3-Dichloropropane	ND	0.0670		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Tetrachloroethene (PCE)	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Dibromochloromethane	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Chlorobenzene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
2-Chlorotoluene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
4-Chlorotoluene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2,3-Trichloropropane	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2,4-Trichlorobenzene	ND	0.0670		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,3-Dichlorobenzene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,4-Dichlorobenzene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2-Dichlorobenzene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:30:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-001

**Matrix:** Soil

**Client Sample ID:** NSW-6-6'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0402		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Hexachloro-1,3-butadiene	ND	0.134		mg/Kg-dry	1	10/12/2014 6:38:00 AM
1,2,3-Trichlorobenzene	ND	0.0268		mg/Kg-dry	1	10/12/2014 6:38:00 AM
Surr: Dibromofluoromethane	87.7	63.7-129		%REC	1	10/12/2014 6:38:00 AM
Surr: Toluene-d8	107	64.3-131		%REC	1	10/12/2014 6:38:00 AM
Surr: 1-Bromo-4-fluorobenzene	97.5	63.1-141		%REC	1	10/12/2014 6:38:00 AM

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Sample Moisture (Percent Moisture)**

Batch ID: R17334

Analyst: TK

Percent Moisture	22.6			wt%	1	10/10/2014 3:21:22 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:35:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-002

**Matrix:** Soil

**Client Sample ID:** NSW-7-6'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0754		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Chloromethane	ND	0.0754		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Vinyl chloride	ND	0.00251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0628		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Chloroethane	ND	0.0754		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1-Dichloroethene	ND	0.0628		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Methylene chloride	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
trans-1,2-Dichloroethene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1-Dichloroethane	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
2,2-Dichloropropane	ND	0.0628	Q	mg/Kg-dry	1	10/12/2014 7:38:00 AM
cis-1,2-Dichloroethene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Chloroform	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1-Dichloropropene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Carbon tetrachloride	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2-Dichloroethane (EDC)	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Trichloroethene (TCE)	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2-Dichloropropane	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Bromodichloromethane	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
cis-1,3-Dichloropropene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
trans-1,3-Dichloropropene	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1,2-Trichloroethane	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,3-Dichloropropane	ND	0.0628		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Tetrachloroethene (PCE)	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Dibromochloromethane	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Chlorobenzene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
2-Chlorotoluene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
4-Chlorotoluene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2,3-Trichloropropane	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2,4-Trichlorobenzene	ND	0.0628		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,3-Dichlorobenzene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,4-Dichlorobenzene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2-Dichlorobenzene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:35:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-002

**Matrix:** Soil

**Client Sample ID:** NSW-7-6'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0377		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Hexachloro-1,3-butadiene	ND	0.126		mg/Kg-dry	1	10/12/2014 7:38:00 AM
1,2,3-Trichlorobenzene	ND	0.0251		mg/Kg-dry	1	10/12/2014 7:38:00 AM
Surr: Dibromofluoromethane	90.5	63.7-129		%REC	1	10/12/2014 7:38:00 AM
Surr: Toluene-d8	64.4	64.3-131		%REC	1	10/12/2014 7:38:00 AM
Surr: 1-Bromo-4-fluorobenzene	94.2	63.1-141		%REC	1	10/12/2014 7:38:00 AM

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Sample Moisture (Percent Moisture)**

Batch ID: R17334

Analyst: TK

Percent Moisture	21.2			wt%	1	10/10/2014 3:21:22 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:40:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-003

**Matrix:** Soil

**Client Sample ID:** B-8-7'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0715		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Chloromethane	ND	0.0715		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Vinyl chloride	ND	0.00238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0596		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Chloroethane	ND	0.0715		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1-Dichloroethene	ND	0.0596		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Methylene chloride	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
trans-1,2-Dichloroethene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1-Dichloroethane	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
2,2-Dichloropropane	ND	0.0596	Q	mg/Kg-dry	1	10/12/2014 9:36:00 AM
cis-1,2-Dichloroethene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Chloroform	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1-Dichloropropene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Carbon tetrachloride	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2-Dichloroethane (EDC)	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Trichloroethene (TCE)	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2-Dichloropropane	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Bromodichloromethane	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
cis-1,3-Dichloropropene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
trans-1,3-Dichloropropene	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1,2-Trichloroethane	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,3-Dichloropropane	ND	0.0596		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Tetrachloroethene (PCE)	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Dibromochloromethane	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Chlorobenzene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
2-Chlorotoluene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
4-Chlorotoluene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2,3-Trichloropropane	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2,4-Trichlorobenzene	ND	0.0596		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,3-Dichlorobenzene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,4-Dichlorobenzene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2-Dichlorobenzene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:40:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-003

**Matrix:** Soil

**Client Sample ID:** B-8-7'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0357		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Hexachloro-1,3-butadiene	ND	0.119		mg/Kg-dry	1	10/12/2014 9:36:00 AM
1,2,3-Trichlorobenzene	ND	0.0238		mg/Kg-dry	1	10/12/2014 9:36:00 AM
Surr: Dibromofluoromethane	87.0	63.7-129		%REC	1	10/12/2014 9:36:00 AM
Surr: Toluene-d8	79.5	64.3-131		%REC	1	10/12/2014 9:36:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.4	63.1-141		%REC	1	10/12/2014 9:36:00 AM

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Sample Moisture (Percent Moisture)**

Batch ID: R17334

Analyst: TK

Percent Moisture	25.8			wt%	1	10/10/2014 3:21:22 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:50:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-004

**Matrix:** Soil

**Client Sample ID:** B-9-7'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0728		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Chloromethane	ND	0.0728		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Vinyl chloride	ND	0.00243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0606		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Chloroethane	ND	0.0728		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1-Dichloroethene	ND	0.0606		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Methylene chloride	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
trans-1,2-Dichloroethene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1-Dichloroethane	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
2,2-Dichloropropane	ND	0.0606	Q	mg/Kg-dry	1	10/12/2014 10:06:00 AM
cis-1,2-Dichloroethene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Chloroform	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1-Dichloropropene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Carbon tetrachloride	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2-Dichloroethane (EDC)	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Trichloroethene (TCE)	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2-Dichloropropane	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Bromodichloromethane	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
cis-1,3-Dichloropropene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
trans-1,3-Dichloropropene	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1,2-Trichloroethane	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,3-Dichloropropane	ND	0.0606		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Tetrachloroethene (PCE)	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Dibromochloromethane	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Chlorobenzene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
2-Chlorotoluene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
4-Chlorotoluene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2,3-Trichloropropane	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2,4-Trichlorobenzene	ND	0.0606		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,3-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,4-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2-Dichlorobenzene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410085

Date Reported: 10/13/2014

**Client:** G-Logics

**Collection Date:** 10/10/2014 12:50:00 PM

**Project:** Gilman Square

**Lab ID:** 1410085-004

**Matrix:** Soil

**Client Sample ID:** B-9-7'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 8999

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0364		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Hexachloro-1,3-butadiene	ND	0.121		mg/Kg-dry	1	10/12/2014 10:06:00 AM
1,2,3-Trichlorobenzene	ND	0.0243		mg/Kg-dry	1	10/12/2014 10:06:00 AM
Surr: Dibromofluoromethane	84.7	63.7-129		%REC	1	10/12/2014 10:06:00 AM
Surr: Toluene-d8	77.4	64.3-131		%REC	1	10/12/2014 10:06:00 AM
Surr: 1-Bromo-4-fluorobenzene	91.6	63.1-141		%REC	1	10/12/2014 10:06:00 AM

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

**Sample Moisture (Percent Moisture)**

Batch ID: R17334

Analyst: TK

Percent Moisture	21.0			wt%	1	10/10/2014 3:21:22 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



Date: 10/13/2014

Work Order: 1410085  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: 1410085-001BDUP	SampType: DUP	Units: mg/Kg-dry	Prep Date: 10/13/2014	RunNo: 17364
Client ID: NSW-6-6'	Batch ID: 8999		Analysis Date: 10/12/2014	SeqNo: 347257

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0804						0		30	
Chloromethane	ND	0.0804						0		30	
Vinyl chloride	ND	0.00268						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0670						0		30	
Chloroethane	ND	0.0804						0		30	
1,1-Dichloroethene	ND	0.0670						0		30	
Methylene chloride	ND	0.0268						0		30	
trans-1,2-Dichloroethene	ND	0.0268						0		30	
1,1-Dichloroethane	ND	0.0268						0		30	
2,2-Dichloropropane	ND	0.0670						0		30	Q
cis-1,2-Dichloroethene	ND	0.0268						0		30	
Chloroform	ND	0.0268						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0268						0		30	
1,1-Dichloropropene	ND	0.0268						0		30	
Carbon tetrachloride	ND	0.0268						0		30	
1,2-Dichloroethane (EDC)	ND	0.0402						0		30	
Trichloroethene (TCE)	ND	0.0268						0		30	
1,2-Dichloropropane	ND	0.0268						0		30	
Bromodichloromethane	ND	0.0268						0		30	
cis-1,3-Dichloropropene	ND	0.0268						0		30	
trans-1,3-Dichloropropene	ND	0.0402						0		30	
1,1,2-Trichloroethane	ND	0.0402						0		30	
1,3-Dichloropropane	ND	0.0670						0		30	
Tetrachloroethene (PCE)	ND	0.0268						0		30	
Dibromochloromethane	ND	0.0402						0		30	
Chlorobenzene	ND	0.0268						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0402						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0268						0		30	
2-Chlorotoluene	ND	0.0268						0		30	

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1410085  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410085-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>NSW-6-6'</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347257</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chlorotoluene	ND	0.0268						0		30	
1,2,3-Trichloropropane	ND	0.0268						0		30	
1,2,4-Trichlorobenzene	ND	0.0670						0		30	
1,3-Dichlorobenzene	ND	0.0268						0		30	
1,4-Dichlorobenzene	ND	0.0268						0		30	
1,2-Dichlorobenzene	ND	0.0268						0		30	
1,2-Dibromo-3-chloropropane	ND	0.0402						0		30	
Hexachloro-1,3-butadiene	ND	0.134						0		30	
1,2,3-Trichlorobenzene	ND	0.0268						0		30	
Surr: Dibromofluoromethane	2.83		3.349		84.6	63.7	129		0		
Surr: Toluene-d8	3.59		3.349		107	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	2.40		3.349		71.7	63.1	141		0		

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID: <b>1410085-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>NSW-7-6'</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347259</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	1.22	0.0754	1.256	0	97.1	43.5	121				
Chloromethane	1.44	0.0754	1.256	0	114	45	130				
Vinyl chloride	1.51	0.00251	1.256	0	120	51.2	146				
Trichlorofluoromethane (CFC-11)	1.53	0.0628	1.256	0	122	35	131				
Chloroethane	1.66	0.0754	1.256	0	132	43.8	117				S
1,1-Dichloroethene	1.45	0.0628	1.256	0	115	61.9	141				
Methylene chloride	1.55	0.0251	1.256	0	123	54.7	142				
trans-1,2-Dichloroethene	1.90	0.0251	1.256	0	151	52	136				S
1,1-Dichloroethane	1.61	0.0251	1.256	0	128	51.8	141				
2,2-Dichloropropane	0.800	0.0628	1.256	0	63.7	36	123				Q

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits



**Work Order:** 1410085  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410085-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>NSW-7-6'</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347259</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

cis-1,2-Dichloroethene	1.39	0.0251	1.256	0	111	58.6	136				
Chloroform	1.31	0.0251	1.256	0	104	53.2	129				
1,1,1-Trichloroethane (TCA)	1.14	0.0251	1.256	0	90.9	58.3	145				
1,1-Dichloropropene	1.32	0.0251	1.256	0	105	55.1	138				
Carbon tetrachloride	1.13	0.0251	1.256	0	90.3	53.3	144				
1,2-Dichloroethane (EDC)	1.29	0.0377	1.256	0	103	51.3	139				
Trichloroethene (TCE)	1.25	0.0251	1.256	0	99.2	68.6	132				
1,2-Dichloropropane	1.26	0.0251	1.256	0	100	59	136				
Bromodichloromethane	1.01	0.0251	1.256	0	80.4	50.7	141				
cis-1,3-Dichloropropene	0.914	0.0251	1.256	0	72.7	50.4	138				
trans-1,3-Dichloropropene	0.787	0.0377	1.256	0	62.7	44.1	147				
1,1,2-Trichloroethane	0.948	0.0377	1.256	0	75.5	51.6	137				
1,3-Dichloropropane	1.01	0.0628	1.256	0	80.3	53.1	134				
Tetrachloroethene (PCE)	1.12	0.0251	1.256	0	89.2	35.6	158				
Dibromochloromethane	0.890	0.0377	1.256	0	70.9	55.3	140				
Chlorobenzene	1.26	0.0251	1.256	0	101	60	133				
1,1,1,2-Tetrachloroethane	1.17	0.0377	1.256	0	93.2	53.1	142				
1,1,2,2-Tetrachloroethane	1.37	0.0251	1.256	0	109	51.9	131				
2-Chlorotoluene	1.25	0.0251	1.256	0	99.3	51.6	136				
4-Chlorotoluene	1.25	0.0251	1.256	0	99.2	50.1	139				
1,2,3-Trichloropropane	1.24	0.0251	1.256	0	98.7	50.5	131				
1,2,4-Trichlorobenzene	1.10	0.0628	1.256	0	87.3	50.8	130				
1,3-Dichlorobenzene	1.20	0.0251	1.256	0	95.9	52.6	131				
1,4-Dichlorobenzene	1.24	0.0251	1.256	0	98.3	52.9	129				
1,2-Dichlorobenzene	1.15	0.0251	1.256	0	91.8	55.8	129				
1,2-Dibromo-3-chloropropane	ND	0.0377	1.256	0	0	40.5	131				S
Hexachloro-1,3-butadiene	1.26	0.126	1.256	0	101	40.6	158				
1,2,3-Trichlorobenzene	1.23	0.0251	1.256	0	97.9	54.4	124				
Surr: Dibromofluoromethane	3.00		3.141		95.4	63.7	129				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1410085  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410085-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>NSW-7-6'</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347259</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	2.63		3.141		83.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	3.01		3.141		95.8	63.1	141				

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Sample ID: <b>LCS-8999</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347262</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	0.925	0.0600	1.000	0	92.5	37.2	139				
Chloromethane	1.10	0.0600	1.000	0	110	38.8	132				
Vinyl chloride	1.10	0.00200	1.000	0	110	56.1	130				
Trichlorofluoromethane (CFC-11)	0.943	0.0500	1.000	0	94.3	42.9	147				
Chloroethane	1.00	0.0600	1.000	0	100	37.1	144				
1,1-Dichloroethene	0.970	0.0500	1.000	0	97.0	49.7	142				
Methylene chloride	0.911	0.0200	1.000	0	91.1	46.3	140				
trans-1,2-Dichloroethene	1.33	0.0200	1.000	0	133	68	130				S
1,1-Dichloroethane	1.17	0.0200	1.000	0	117	65.5	132				
2,2-Dichloropropane	0.742	0.0500	1.000	0	74.2	28.1	149				Q
cis-1,2-Dichloroethene	1.09	0.0200	1.000	0	109	71.3	135				
Chloroform	1.04	0.0200	1.000	0	104	67.5	129				
1,1,1-Trichloroethane (TCA)	0.899	0.0200	1.000	0	89.9	69	132				
1,1-Dichloropropene	1.03	0.0200	1.000	0	103	72.7	131				
Carbon tetrachloride	0.892	0.0200	1.000	0	89.2	63.4	137				
1,2-Dichloroethane (EDC)	1.01	0.0300	1.000	0	101	61.9	136				
Trichloroethene (TCE)	0.975	0.0200	1.000	0	97.5	65.5	137				
1,2-Dichloropropane	0.829	0.0200	1.000	0	82.9	63.2	142				
Bromodichloromethane	0.754	0.0200	1.000	0	75.4	73.2	131				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1410085  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-8999</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>
Client ID: <b>LCSS</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347262</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,3-Dichloropropene	0.700	0.0200	1.000	0	70.0	59.1	143				
trans-1,3-Dichloropropene	0.662	0.0300	1.000	0	66.2	49.2	149				
1,1,2-Trichloroethane	0.755	0.0300	1.000	0	75.5	74.5	129				
1,3-Dichloropropane	0.796	0.0500	1.000	0	79.6	70	130				
Tetrachloroethene (PCE)	0.850	0.0200	1.000	0	85.0	52.7	150				
Dibromochloromethane	0.763	0.0300	1.000	0	76.3	70.6	144				
Chlorobenzene	0.991	0.0200	1.000	0	99.1	76.1	123				
1,1,1,2-Tetrachloroethane	0.955	0.0300	1.000	0	95.5	74.8	131				
1,1,1,2,2-Tetrachloroethane	1.05	0.0200	1.000	0	105	60	130				
2-Chlorotoluene	0.981	0.0200	1.000	0	98.1	76.7	129				
4-Chlorotoluene	0.981	0.0200	1.000	0	98.1	77.5	125				
1,2,3-Trichloropropane	0.969	0.0200	1.000	0	96.9	67.9	136				
1,2,4-Trichlorobenzene	0.890	0.0500	1.000	0	89.0	65.6	137				
1,3-Dichlorobenzene	0.948	0.0200	1.000	0	94.8	72.8	128				
1,4-Dichlorobenzene	0.978	0.0200	1.000	0	97.8	72.6	126				
1,2-Dichlorobenzene	0.916	0.0200	1.000	0	91.6	72.8	126				
1,2-Dibromo-3-chloropropane	0.747	0.0300	1.000	0	74.7	61.2	139				
Hexachloro-1,3-butadiene	0.984	0.100	1.000	0	98.4	42	151				
1,2,3-Trichlorobenzene	0.998	0.0200	1.000	0	99.8	62.1	140				
Surr: Dibromofluoromethane	2.44		2.500		97.4	63.7	129				
Surr: Toluene-d8	1.96		2.500		78.2	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.43		2.500		97.1	63.1	141				

**NOTES:**

S - Outlying spike recovery observed for trans-1,2-Dichloroethene - high bias. There were no detection of this analyte in the sample. No further action is required.  
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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**Work Order:** 1410085  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-8999</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347263</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0600									
Chloromethane	ND	0.0600									
Vinyl chloride	ND	0.00200									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.0600									
1,1-Dichloroethene	ND	0.0500									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
1,1-Dichloroethane	ND	0.0200									
2,2-Dichloropropane	ND	0.0500									Q
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0300									
Trichloroethene (TCE)	ND	0.0200									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
cis-1,3-Dichloropropene	ND	0.0200									
trans-1,3-Dichloropropene	ND	0.0300									
1,1,2-Trichloroethane	ND	0.0300									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0200									
Dibromochloromethane	ND	0.0300									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0300									
1,1,2,2-Tetrachloroethane	ND	0.0200									
2-Chlorotoluene	ND	0.0200									

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

Work Order: 1410085  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-8999</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>10/13/2014</b>	RunNo: <b>17364</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>8999</b>		Analysis Date: <b>10/12/2014</b>	SeqNo: <b>347263</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chlorotoluene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0200									
1,2,4-Trichlorobenzene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
Hexachloro-1,3-butadiene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	2.10		2.500		84.0	63.7	129				
Surr: Toluene-d8	2.65		2.500		106	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.29		2.500		91.7	63.1	141				

**NOTES:**

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: <b>GL</b>	Work Order Number: <b>1410085</b>
Logged by: <b>Erica Silva</b>	Date Received: <b>10/10/2014 1:30:00 PM</b>

**Chain of Custody**

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

**Log In**

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody seals intact on shipping container/cooler?      Yes       No       Not Required
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all coolers received at a temperature of >0°C to 10.0°C      Yes       No       NA
8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is the headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

**Special Handling (if applicable)**

18. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	<input style="width: 90%;" type="text"/>	Date:	<input style="width: 90%;" type="text"/>
By Whom:	<input style="width: 90%;" type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input style="width: 95%;" type="text"/>		
Client Instructions:	<input style="width: 95%;" type="text"/>		

19. Additional remarks:

**Item Information**

Item #	Temp °C	Condition
Cooler	4.3	Good
Sample	9.6	Good



# Fremont

ANALYTICAL

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 12/10/14

Laboratory Project No. (Internal):

1410085

Client: G-Logics

Project Name: Galena Square

Location: ISSGUL Square

Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_

Collected by: SH

Project No: 01-0868-J

Reports To (PMI): Stuart W

Email: Stuart@G-Logics.com

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, Q = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Material)	VOC (EPA 8260)	GV/BTEX	BTEX	Gasoline Range Organic (GRO)	Hydrocarbon Identification (HID)	Diethylhexyl Sebacate (DEHS)	SEMI-VOC (EPA 8270)	PAH (EPA 8270-SM)	PCB (EPA 8062)	Metals** (6020/200.8)	Total (T)   Dissolved (D)	Anions (C)***	EDB (R01)	Comments/Depth
1 NSD-6-6'	10/10	1330	Soil														C1 Screens
2 NSD-7-6'		1335	Soil														
3 B-8-7'		1340	Soil														
4 B-9-7'		1350	Soil														
5																	
6																	
7																	
8																	
9																	
30																	

\*\*Metals Analysis (Circle): MTTA-S RE-RX Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Cr Cu Fe Hg & Mn Ni Pb Sn Se Sr Ti U V

\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Fluoride Nitrate+Nitrite

Sample Disposal:  Return to Client  Disposal by Lab (Lab may be assessed)  Sample sent to other lab (30 days)

Requisitioned: \_\_\_\_\_ Date/Time: 12/10/14 1330 Received: \_\_\_\_\_ Date/Time: 12/10/14 1330

Signature: \_\_\_\_\_ Date/Time: 12/10/14 1330

Signature: \_\_\_\_\_ Date/Time: 12/10/14 1330



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1410058**

October 15, 2014

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 1 sample(s) on 10/8/2014 for the analyses presented in the following report.

***Total Metals by EPA Method 200.8***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 10/15/2014

---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1410058

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410058-001	Baker0A1736-100814	10/08/2014 11:00 AM	10/08/2014 1:05 PM

---

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1410058

Date Reported: 10/15/2014

**Client:** G-Logics

**Collection Date:** 10/8/2014 11:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1410058-001

**Matrix:** Water

**Client Sample ID:** Baker0A1736-100814

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17300

Analyst: BC

Dichlorodifluoromethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Chloromethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Vinyl chloride	ND	0.200		µg/L	1	10/9/2014 11:06:00 AM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Chloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Methylene chloride	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1-Dichloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
2,2-Dichloropropane	ND	2.00		µg/L	1	10/9/2014 11:06:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Chloroform	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1-Dichloropropene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Carbon tetrachloride	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,2-Dichloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	10/9/2014 11:06:00 AM
1,2-Dichloropropane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Bromodichloromethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,3-Dichloropropane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Dibromochloromethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Chlorobenzene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
2-Chlorotoluene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
4-Chlorotoluene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	10/9/2014 11:06:00 AM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1410058

Date Reported: 10/15/2014

**Client:** G-Logics

**Collection Date:** 10/8/2014 11:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1410058-001

**Matrix:** Water

**Client Sample ID:** Baker0A1736-100814

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R17300

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	10/9/2014 11:06:00 AM
Hexachlorobutadiene	ND	4.00		µg/L	1	10/9/2014 11:06:00 AM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	10/9/2014 11:06:00 AM
Surr: Dibromofluoromethane	99.5	61.7-130		%REC	1	10/9/2014 11:06:00 AM
Surr: Toluene-d8	98.7	40.1-139		%REC	1	10/9/2014 11:06:00 AM
Surr: 1-Bromo-4-fluorobenzene	103	68.2-127		%REC	1	10/9/2014 11:06:00 AM

**Total Metals by EPA Method 200.8**

Batch ID: 8973

Analyst: TN

Arsenic	4.82	1.00		µg/L	1	10/9/2014 4:50:43 PM
Chromium	2.28	0.500		µg/L	1	10/9/2014 4:50:43 PM
Lead	ND	1.00		µg/L	1	10/9/2014 4:50:43 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>MB-8973</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>8973</b>					Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346145</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Chromium	ND	0.500									
Lead	ND	1.00									

Sample ID: <b>LCS-8973</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>8973</b>					Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346146</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	96.7	1.00	100.0	0	96.7	85	115				
Chromium	106	0.500	100.0	0	106	85	115				
Lead	48.4	1.00	50.00	0	96.7	85	115				

Sample ID: <b>1410058-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>				Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>				
Client ID: <b>Baker0A1736-100814</b>	Batch ID: <b>8973</b>					Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346148</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	3.95	1.00						4.824	19.9	30	
Chromium	2.06	0.500						2.276	10.0	30	
Lead	ND	1.00						0		30	

Sample ID: <b>1410058-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>				Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>				
Client ID: <b>Baker0A1736-100814</b>	Batch ID: <b>8973</b>					Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346149</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	513	1.00	500.0	4.824	102	70	130				
Chromium	544	0.500	500.0	2.276	108	70	130				
Lead	241	1.00	250.0	0.9410	95.8	70	130				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/15/2014

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID: <b>1410058-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>							
Client ID: <b>Baker0A1736-100814</b>	Batch ID: <b>8973</b>	Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346149</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID: <b>1410058-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17310</b>							
Client ID: <b>Baker0A1736-100814</b>	Batch ID: <b>8973</b>	Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346150</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	512	1.00	500.0	4.824	101	70	130	513.3	0.323	30	
Chromium	542	0.500	500.0	2.276	108	70	130	543.7	0.375	30	
Lead	241	1.00	250.0	0.9410	96.1	70	130	240.5	0.253	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/15/2014

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410016-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346023</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	17.9	1.00	20.00	0	89.4	33.3	122				
Chloromethane	19.0	1.00	20.00	0	95.1	48.2	145				
Vinyl chloride	16.8	0.200	20.00	0	84.2	58.1	158				
Trichlorofluoromethane (CFC-11)	20.0	1.00	20.00	0	99.8	54.7	138				
Chloroethane	11.4	1.00	20.00	0	56.8	49.9	143				
1,1-Dichloroethene	18.1	1.00	20.00	0	90.6	63	141				
Methylene chloride	19.9	1.00	20.00	0	99.5	61.6	135				
trans-1,2-Dichloroethene	19.0	1.00	20.00	0	94.8	63.5	138				
1,1-Dichloroethane	19.0	1.00	20.00	0	94.8	67.8	136				
2,2-Dichloropropane	16.4	2.00	20.00	0	82.2	31.5	121				
cis-1,2-Dichloroethene	19.8	1.00	20.00	0	98.8	67.1	123				
Chloroform	16.2	1.00	20.00	0	81.1	66.7	136				
1,1,1-Trichloroethane (TCA)	18.9	1.00	20.00	0	94.6	64.2	146				
1,1-Dichloropropene	19.0	1.00	20.00	0	95.1	73.8	136				
Carbon tetrachloride	22.1	1.00	20.00	0	111	62.7	146				
1,2-Dichloroethane	18.7	1.00	20.00	0	93.5	63.4	137				
Trichloroethene (TCE)	19.8	0.500	20.00	0	99.2	60.4	134				
1,2-Dichloropropane	19.8	1.00	20.00	0	99.0	62.6	138				
Bromodichloromethane	19.3	1.00	20.00	0	96.4	59.4	139				
cis-1,3-Dichloropropene	19.1	1.00	20.00	0	95.3	63.8	132				
trans-1,3-Dichloropropene	19.5	1.00	20.00	0	97.5	57.7	125				
1,1,2-Trichloroethane	18.6	1.00	20.00	0	92.9	59.4	127				
1,3-Dichloropropane	19.4	1.00	20.00	0	96.9	64.3	135				
Tetrachloroethene (PCE)	20.6	1.00	20.00	0	103	50.3	133				
Dibromochloromethane	19.2	1.00	20.00	0	96.0	61.6	139				
Chlorobenzene	20.4	1.00	20.00	0	102	65.8	134				
1,1,1,2-Tetrachloroethane	18.8	1.00	20.00	0	93.9	65.4	135				
1,1,2,2-Tetrachloroethane	19.8	1.00	20.00	0	99.0	59.8	146				
2-Chlorotoluene	19.8	1.00	20.00	0	98.8	61.7	134				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410016-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346023</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chlorotoluene	19.1	1.00	20.00	0	95.6	58.4	134				
1,2,3-Trichloropropane	20.6	1.00	20.00	0	103	62.4	129				
1,2,4-Trichlorobenzene	19.8	2.00	20.00	0	99.0	50.9	133				
1,3-Dichlorobenzene	18.9	1.00	20.00	0	94.3	58.2	128				
1,4-Dichlorobenzene	19.3	1.00	20.00	0	96.6	60.1	123				
1,2-Dichlorobenzene	19.3	1.00	20.00	0	96.7	65.4	133				
1,2-Dibromo-3-chloropropane	20.2	1.00	20.00	0	101	51.8	142				
Hexachlorobutadiene	19.9	4.00	20.00	0	99.7	58.1	130				
1,2,3-Trichlorobenzene	20.5	4.00	20.00	0	102	57	131				
Surr: Dibromofluoromethane	49.9		50.00		99.8	61.7	130				
Surr: Toluene-d8	49.7		50.00		99.5	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	51.7		50.00		103	68.2	127				

Sample ID: <b>1410041-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346025</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	1.00						0		30	
Chloromethane	ND	1.00						0		30	
Vinyl chloride	ND	0.200						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.00						0		30	
Chloroethane	ND	1.00						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
Methylene chloride	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
1,1-Dichloroethane	ND	1.00						0		30	
2,2-Dichloropropane	ND	2.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/15/2014

Work Order: 1410058  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: 1410041-001ADUP	SampType: DUP	Units: µg/L	Prep Date: 10/9/2014	RunNo: 17300
Client ID: BATCH	Batch ID: R17300		Analysis Date: 10/9/2014	SeqNo: 346025

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	1.00						0		30	
1,1,1-Trichloroethane (TCA)	ND	1.00						0		30	
1,1-Dichloropropene	ND	1.00						0		30	
Carbon tetrachloride	ND	1.00						0		30	
1,2-Dichloroethane	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Bromodichloromethane	ND	1.00						0		30	
cis-1,3-Dichloropropene	ND	1.00						0		30	
trans-1,3-Dichloropropene	ND	1.00						0		30	
1,1,2-Trichloroethane	ND	1.00						0		30	
1,3-Dichloropropane	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Dibromochloromethane	ND	1.00						0		30	
Chlorobenzene	ND	1.00						0		30	
1,1,1,2-Tetrachloroethane	ND	1.00						0		30	
1,1,2,2-Tetrachloroethane	ND	1.00						0		30	
2-Chlorotoluene	ND	1.00						0		30	
4-Chlorotoluene	ND	1.00						0		30	
1,2,3-Trichloropropane	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	2.00						0		30	
1,3-Dichlorobenzene	ND	1.00						0		30	
1,4-Dichlorobenzene	ND	1.00						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2-Dibromo-3-chloropropane	ND	1.00						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
1,2,3-Trichlorobenzene	ND	4.00						0		30	
Surr: Dibromofluoromethane	50.0		50.00		100	61.7	130		0		
Surr: Toluene-d8	49.9		50.00		99.8	40.1	139		0		

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1410041-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346025</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 1-Bromo-4-fluorobenzene	49.3		50.00		98.5	68.2	127		0		

Sample ID: <b>LCS-R17300</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346037</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	17.8	1.00	20.00	0	89.2	43	136				
Chloromethane	18.2	1.00	20.00	0	90.8	43.9	139				
Vinyl chloride	16.5	0.200	20.00	0	82.6	53.6	139				
Trichlorofluoromethane (CFC-11)	19.5	1.00	20.00	0	97.6	63.7	133				
Chloroethane	13.9	1.00	20.00	0	69.4	53	141				
1,1-Dichloroethene	17.6	1.00	20.00	0	88.2	65.6	136				
Methylene chloride	20.1	1.00	20.00	0	100	67.1	131				
trans-1,2-Dichloroethene	18.4	1.00	20.00	0	91.9	71.7	129				
1,1-Dichloroethane	18.9	1.00	20.00	0	94.4	67.9	134				
2,2-Dichloropropane	16.6	2.00	20.00	0	82.8	33.7	152				
cis-1,2-Dichloroethene	18.8	1.00	20.00	0	94.0	71.1	130				
Chloroform	19.9	1.00	20.00	0	99.4	66.3	131				
1,1,1-Trichloroethane (TCA)	17.5	1.00	20.00	0	87.6	71	131				
1,1-Dichloropropene	18.2	1.00	20.00	0	90.9	74.5	126				
Carbon tetrachloride	20.1	1.00	20.00	0	100	66.2	134				
1,2-Dichloroethane	19.1	1.00	20.00	0	95.5	70	129				
Trichloroethene (TCE)	19.7	0.500	20.00	0	98.4	65.2	136				
1,2-Dichloropropane	19.8	1.00	20.00	0	99.2	70.5	130				
Bromodichloromethane	19.6	1.00	20.00	0	98.1	74.6	127				
cis-1,3-Dichloropropene	17.4	1.00	20.00	0	87.2	62.6	137				
trans-1,3-Dichloropropene	18.4	1.00	20.00	0	92.2	58.5	142				
1,1,2-Trichloroethane	18.1	1.00	20.00	0	90.6	76	124				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-R17300</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346037</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichloropropane	18.4	1.00	20.00	0	91.8	73.5	127				
Tetrachloroethene (PCE)	20.3	1.00	20.00	0	102	47.5	147				
Dibromochloromethane	18.2	1.00	20.00	0	90.8	67.2	134				
Chlorobenzene	19.9	1.00	20.00	0	99.7	73.9	126				
1,1,1,2-Tetrachloroethane	18.3	1.00	20.00	0	91.4	76.8	124				
1,1,2,2-Tetrachloroethane	19.2	1.00	20.00	0	95.8	62.9	132				
2-Chlorotoluene	18.8	1.00	20.00	0	94.0	70.8	130				
4-Chlorotoluene	18.8	1.00	20.00	0	94.2	70.1	131				
1,2,3-Trichloropropane	19.4	1.00	20.00	0	96.8	67.7	131				
1,2,4-Trichlorobenzene	20.3	2.00	20.00	0	101	67.6	129				
1,3-Dichlorobenzene	18.9	1.00	20.00	0	94.6	72.4	129				
1,4-Dichlorobenzene	18.8	1.00	20.00	0	93.9	70.6	128				
1,2-Dichlorobenzene	18.9	1.00	20.00	0	94.6	74.2	129				
1,2-Dibromo-3-chloropropane	21.9	1.00	20.00	0	109	63.1	136				
Hexachlorobutadiene	20.8	4.00	20.00	0	104	58.6	138				
1,2,3-Trichlorobenzene	20.1	4.00	20.00	0	101	50.2	139				
Surr: Dibromofluoromethane	49.0		50.00		97.9	61.7	130				
Surr: Toluene-d8	50.3		50.00		101	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	51.5		50.00		103	68.2	127				

Sample ID: <b>MB-R17300</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346038</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	0.200									
Trichlorofluoromethane (CFC-11)	ND	1.00									

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



Date: 10/15/2014

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17300</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346038</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
2,2-Dichloropropane	ND	2.00									
cis-1,2-Dichloroethene	ND	1.00									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1410058  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R17300</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>10/9/2014</b>	RunNo: <b>17300</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R17300</b>		Analysis Date: <b>10/9/2014</b>	SeqNo: <b>346038</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachlorobutadiene	ND	4.00									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	49.1		50.00		98.2	61.7	130				
Surr: Toluene-d8	48.8		50.00		97.5	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	49.1		50.00		98.3	68.2	127				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Client Name: **GL**  
 Logged by: **Erica Silva**

 Work Order Number: **1410058**  
 Date Received: **10/8/2014 1:05:00 PM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody seals intact on shipping container/cooler? Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes  No  NA
- Samples received straight from field**
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is the headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	13.3	
Sample	13.2	



# Fremont

ANALYTICAL

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 10/08/14

Laboratory Project No (Internal) \_\_\_\_\_  
Page: 1 of 1

1410058

## Chain of Custody Record

Client:

G-Logics

Project Name:

Gilman Square

Address:

40 5th Ave SE

Location:

Issaquah

City, State, Zip

Issaquah

Tel: 425-391-0574

Collected by:

SH

Reports To (PM):

SH

Fax:

Email: [Shawn.Hedges@glogics.com](mailto:Shawn.Hedges@glogics.com) Project No: 01-0828-J

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, ST = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	YOC (EPA 8260)	GV/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HID)	Diesel/Heavy Oil Range Organics (DRO)	SEM YOC (EPA 8270)	PAH (EPA 8270 - SM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Oil (IT) Dissolved (O)	Arsenic (IC)**	ED0 (SOL)	Comments/Date
1. BLE-041736-100814	10/08	1100	H2O	X													CI-Solvents only Arsenic lead clean up
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

\*\*Metals Analysis (Circle): MATS-8 RCRA-8 Priority Pollutants TAL Individual: Ag Al Ar B Ba Be Ca Cd Cr Cu Fe Hg Pb Ni Mn Mo Na K Li Pb Sn Se Sr Ti U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Cyanide Fluoride Manganese

Sample Disposal:  Return to Client  Disposal by Lab (on the payee's account) (minimum 30 days advance notice)

Relinquished: SH Date/Time: 10/08/14 10:50am Received: SH Date/Time: 10/8/14 12:05

Reinquisitioned: SH Date/Time: 10/08/14 10:50am Received: SH Date/Time: 10/8/14 12:05

Special Remarks: VAT -> SameDay! NextDay! 2 Day 3 Day 5 Day



3600 Fremont Ave. N.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1411117**

November 13, 2014

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 4 sample(s) on 11/12/2014 for the analyses presented in the following report.

***Sample Moisture (Percent Moisture)***  
***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 11/13/2014

---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1411117

---

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1411117-001	DW-Ex-13-56'	11/12/2014 9:15 AM	11/12/2014 11:21 AM
1411117-002	DW-Ex-14-56'	11/12/2014 9:40 AM	11/12/2014 11:21 AM
1411117-003	DW-Ex-GW-CE	11/12/2014 9:45 AM	11/12/2014 11:21 AM
1411117-004	DW-Ex-GW-NE	11/12/2014 9:45 AM	11/12/2014 11:21 AM

---

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:15:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-001

**Matrix:** Soil

**Client Sample ID:** DW-Ex-13-56'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 9281

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0906		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Chloromethane	ND	0.0906		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Vinyl chloride	ND	0.00302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0755		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Chloroethane	ND	0.0906		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1-Dichloroethene	ND	0.0755		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Methylene chloride	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
trans-1,2-Dichloroethene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1-Dichloroethane	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
2,2-Dichloropropane	ND	0.0755		mg/Kg-dry	1	11/13/2014 7:17:00 AM
cis-1,2-Dichloroethene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Chloroform	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1-Dichloropropene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Carbon tetrachloride	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2-Dichloroethane (EDC)	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Trichloroethene (TCE)	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2-Dichloropropane	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Bromodichloromethane	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
cis-1,3-Dichloropropene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
trans-1,3-Dichloropropene	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1,2-Trichloroethane	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,3-Dichloropropane	ND	0.0755		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Tetrachloroethene (PCE)	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Dibromochloromethane	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Chlorobenzene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
2-Chlorotoluene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
4-Chlorotoluene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2,3-Trichloropropane	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2,4-Trichlorobenzene	ND	0.0755		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,3-Dichlorobenzene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,4-Dichlorobenzene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2-Dichlorobenzene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:15:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-001

**Matrix:** Soil

**Client Sample ID:** DW-Ex-13-56'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 9281

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0453		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Hexachloro-1,3-butadiene	ND	0.151		mg/Kg-dry	1	11/13/2014 7:17:00 AM
1,2,3-Trichlorobenzene	ND	0.0302		mg/Kg-dry	1	11/13/2014 7:17:00 AM
Surr: Dibromofluoromethane	103	63.7-129		%REC	1	11/13/2014 7:17:00 AM
Surr: Toluene-d8	108	64.3-131		%REC	1	11/13/2014 7:17:00 AM
Surr: 1-Bromo-4-fluorobenzene	100	63.1-141		%REC	1	11/13/2014 7:17:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R17989

Analyst: SL

Percent Moisture	22.6			wt%	1	11/12/2014 2:19:27 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:40:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-002

**Matrix:** Soil

**Client Sample ID:** DW-Ex-14-56'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 9281

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	0.0917		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Chloromethane	ND	0.0917		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Vinyl chloride	ND	0.00306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0764		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Chloroethane	ND	0.0917		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1-Dichloroethene	ND	0.0764		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Methylene chloride	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
trans-1,2-Dichloroethene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1-Dichloroethane	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
2,2-Dichloropropane	ND	0.0764		mg/Kg-dry	1	11/13/2014 7:46:00 AM
cis-1,2-Dichloroethene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Chloroform	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1-Dichloropropene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Carbon tetrachloride	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2-Dichloroethane (EDC)	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Trichloroethene (TCE)	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2-Dichloropropane	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Bromodichloromethane	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
cis-1,3-Dichloropropene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
trans-1,3-Dichloropropene	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1,2-Trichloroethane	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,3-Dichloropropane	ND	0.0764		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Tetrachloroethene (PCE)	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Dibromochloromethane	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Chlorobenzene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
2-Chlorotoluene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
4-Chlorotoluene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2,3-Trichloropropane	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2,4-Trichlorobenzene	ND	0.0764		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,3-Dichlorobenzene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,4-Dichlorobenzene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2-Dichlorobenzene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



**Client:** G-Logics

**Collection Date:** 11/12/2014 9:40:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-002

**Matrix:** Soil

**Client Sample ID:** DW-Ex-14-56'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 9281

Analyst: BC

1,2-Dibromo-3-chloropropane	ND	0.0459		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Hexachloro-1,3-butadiene	ND	0.153		mg/Kg-dry	1	11/13/2014 7:46:00 AM
1,2,3-Trichlorobenzene	ND	0.0306		mg/Kg-dry	1	11/13/2014 7:46:00 AM
Surr: Dibromofluoromethane	104	63.7-129		%REC	1	11/13/2014 7:46:00 AM
Surr: Toluene-d8	99.2	64.3-131		%REC	1	11/13/2014 7:46:00 AM
Surr: 1-Bromo-4-fluorobenzene	102	63.1-141		%REC	1	11/13/2014 7:46:00 AM

**Sample Moisture (Percent Moisture)**

Batch ID: R17989

Analyst: SL

Percent Moisture	36.5			wt%	1	11/12/2014 2:19:27 PM
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**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-003

**Matrix:** Water

**Client Sample ID:** DW-Ex-GW-CE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R18018

Analyst: EM

Dichlorodifluoromethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Chloromethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Vinyl chloride	ND	0.200		µg/L	1	11/13/2014 2:46:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Chloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Methylene chloride	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	11/13/2014 2:46:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Chloroform	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	11/13/2014 2:46:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Chlorobenzene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	11/13/2014 2:46:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-003

**Matrix:** Water

**Client Sample ID:** DW-Ex-GW-CE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R18018

Analyst: EM

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	11/13/2014 2:46:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	11/13/2014 2:46:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	11/13/2014 2:46:00 PM
Surr: Dibromofluoromethane	98.8	61.7-130		%REC	1	11/13/2014 2:46:00 PM
Surr: Toluene-d8	98.7	40.1-139		%REC	1	11/13/2014 2:46:00 PM
Surr: 1-Bromo-4-fluorobenzene	115	68.2-127		%REC	1	11/13/2014 2:46:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1411117

Date Reported: 11/13/2014

**Client:** G-Logics

**Collection Date:** 11/12/2014 9:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-004

**Matrix:** Water

**Client Sample ID:** DW-Ex-GW-NE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R18018

Analyst: EM

Dichlorodifluoromethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Chloromethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Vinyl chloride	ND	0.200		µg/L	1	11/13/2014 3:40:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Chloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Methylene chloride	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	11/13/2014 3:40:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Chloroform	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,2-Dichloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Trichloroethene (TCE)	ND	0.500		µg/L	1	11/13/2014 3:40:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Chlorobenzene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	11/13/2014 3:40:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



**Client:** G-Logics

**Collection Date:** 11/12/2014 9:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1411117-004

**Matrix:** Water

**Client Sample ID:** DW-Ex-GW-NE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R18018

Analyst: EM

1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	11/13/2014 3:40:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	11/13/2014 3:40:00 PM
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	11/13/2014 3:40:00 PM
Surr: Dibromofluoromethane	95.8	61.7-130		%REC	1	11/13/2014 3:40:00 PM
Surr: Toluene-d8	95.4	40.1-139		%REC	1	11/13/2014 3:40:00 PM
Surr: 1-Bromo-4-fluorobenzene	114	68.2-127		%REC	1	11/13/2014 3:40:00 PM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits



Date: 11/13/2014

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1411117-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>DW-Ex-14-56'</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358855</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	1.48	0.0917	1.529	0	96.7	43.5	121				
Chloromethane	1.57	0.0917	1.529	0	103	45	130				
Vinyl chloride	1.74	0.00306	1.529	0	114	51.2	146				
Trichlorofluoromethane (CFC-11)	2.44	0.0764	1.529	0	160	35	131				S
Chloroethane	2.21	0.0917	1.529	0	145	43.8	117				S
1,1-Dichloroethene	2.84	0.0764	1.529	0	186	61.9	141				S
Methylene chloride	1.73	0.0306	1.529	0	113	54.7	142				
trans-1,2-Dichloroethene	1.63	0.0306	1.529	0	106	52	136				
1,1-Dichloroethane	1.84	0.0306	1.529	0	120	51.8	141				
2,2-Dichloropropane	1.41	0.0764	1.529	0	91.9	36	123				
cis-1,2-Dichloroethene	1.84	0.0306	1.529	0	120	58.6	136				
Chloroform	1.75	0.0306	1.529	0	115	53.2	129				
1,1,1-Trichloroethane (TCA)	1.72	0.0306	1.529	0	113	58.3	145				
1,1-Dichloropropene	1.58	0.0306	1.529	0	103	55.1	138				
Carbon tetrachloride	1.68	0.0306	1.529	0	110	53.3	144				
1,2-Dichloroethane (EDC)	1.88	0.0459	1.529	0	123	51.3	139				
Trichloroethene (TCE)	1.83	0.0306	1.529	0	120	68.6	132				
1,2-Dichloropropane	1.80	0.0306	1.529	0	118	59	136				
Bromodichloromethane	1.69	0.0306	1.529	0	111	50.7	141				
cis-1,3-Dichloropropene	1.59	0.0306	1.529	0	104	50.4	138				
trans-1,3-Dichloropropene	1.59	0.0459	1.529	0	104	44.1	147				
1,1,2-Trichloroethane	1.78	0.0459	1.529	0	116	51.6	137				
1,3-Dichloropropane	1.68	0.0764	1.529	0	110	53.1	134				
Tetrachloroethene (PCE)	1.74	0.0306	1.529	0	114	35.6	158				
Dibromochloromethane	1.76	0.0459	1.529	0	115	55.3	140				
Chlorobenzene	1.46	0.0306	1.529	0	95.3	60	133				
1,1,1,2-Tetrachloroethane	1.62	0.0459	1.529	0	106	53.1	142				
1,1,2,2-Tetrachloroethane	1.56	0.0306	1.529	0	102	51.9	131				
2-Chlorotoluene	1.49	0.0306	1.529	0	97.5	51.6	136				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>1411117-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>DW-Ex-14-56'</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358855</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chlorotoluene	1.56	0.0306	1.529	0	102	50.1	139				
1,2,3-Trichloropropane	1.82	0.0306	1.529	0	119	50.5	131				
1,2,4-Trichlorobenzene	1.53	0.0764	1.529	0	100	50.8	130				
1,3-Dichlorobenzene	1.44	0.0306	1.529	0	94.4	52.6	131				
1,4-Dichlorobenzene	1.40	0.0306	1.529	0	91.8	52.9	129				
1,2-Dichlorobenzene	1.43	0.0306	1.529	0	93.5	55.8	129				
1,2-Dibromo-3-chloropropane	1.63	0.0459	1.529	0	107	40.5	131				
Hexachloro-1,3-butadiene	1.63	0.153	1.529	0	106	40.6	158				
1,2,3-Trichlorobenzene	1.54	0.0306	1.529	0	101	54.4	124				
Surr: Dibromofluoromethane	4.60		3.822		120	63.7	129				
Surr: Toluene-d8	3.89		3.822		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	4.09		3.822		107	63.1	141				

**NOTES:**

S - Outlying QC recoveries were observed. The method is in control as indicated by the LCS.

Sample ID: <b>LCS-9281</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358863</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	0.978	0.0600	1.000	0	97.8	37.2	139				
Chloromethane	1.02	0.0600	1.000	0	102	38.8	132				
Vinyl chloride	1.06	0.00200	1.000	0	106	56.1	130				
Trichlorofluoromethane (CFC-11)	1.11	0.0500	1.000	0	111	42.9	147				
Chloroethane	1.15	0.0600	1.000	0	115	37.1	144				
1,1-Dichloroethene	1.03	0.0500	1.000	0	103	49.7	142				
Methylene chloride	0.910	0.0200	1.000	0	91.0	46.3	140				
trans-1,2-Dichloroethene	0.960	0.0200	1.000	0	96.0	68	130				
1,1-Dichloroethane	0.984	0.0200	1.000	0	98.4	65.5	132				
2,2-Dichloropropane	1.07	0.0500	1.000	0	107	28.1	149				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: LCS-9281	SampType: LCS	Units: mg/Kg				Prep Date: 11/12/2014	RunNo: 18009				
Client ID: LCSS	Batch ID: 9281					Analysis Date: 11/13/2014	SeqNo: 358863				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	1.14	0.0200	1.000	0	114	71.3	135				
Chloroform	1.12	0.0200	1.000	0	112	67.5	129				
1,1,1-Trichloroethane (TCA)	1.04	0.0200	1.000	0	104	69	132				
1,1-Dichloropropene	1.02	0.0200	1.000	0	102	72.7	131				
Carbon tetrachloride	1.02	0.0200	1.000	0	102	63.4	137				
1,2-Dichloroethane (EDC)	1.22	0.0300	1.000	0	122	61.9	136				
Trichloroethene (TCE)	1.18	0.0200	1.000	0	118	65.5	137				
1,2-Dichloropropane	1.17	0.0200	1.000	0	117	63.2	142				
Bromodichloromethane	1.09	0.0200	1.000	0	109	73.2	131				
cis-1,3-Dichloropropene	1.07	0.0200	1.000	0	107	59.1	143				
trans-1,3-Dichloropropene	1.07	0.0300	1.000	0	107	49.2	149				
1,1,2-Trichloroethane	1.15	0.0300	1.000	0	115	74.5	129				
1,3-Dichloropropane	1.07	0.0500	1.000	0	107	70	130				
Tetrachloroethene (PCE)	1.13	0.0200	1.000	0	113	52.7	150				
Dibromochloromethane	1.10	0.0300	1.000	0	110	70.6	144				
Chlorobenzene	0.959	0.0200	1.000	0	95.9	76.1	123				
1,1,1,2-Tetrachloroethane	1.03	0.0300	1.000	0	103	74.8	131				
1,1,2,2-Tetrachloroethane	1.04	0.0200	1.000	0	104	60	130				
2-Chlorotoluene	0.988	0.0200	1.000	0	98.8	76.7	129				
4-Chlorotoluene	1.03	0.0200	1.000	0	103	77.5	125				
1,2,3-Trichloropropane	1.19	0.0200	1.000	0	119	67.9	136				
1,2,4-Trichlorobenzene	1.04	0.0500	1.000	0	104	65.6	137				
1,3-Dichlorobenzene	0.979	0.0200	1.000	0	97.9	72.8	128				
1,4-Dichlorobenzene	0.954	0.0200	1.000	0	95.4	72.6	126				
1,2-Dichlorobenzene	0.961	0.0200	1.000	0	96.1	72.8	126				
1,2-Dibromo-3-chloropropane	1.08	0.0300	1.000	0	108	61.2	139				
Hexachloro-1,3-butadiene	1.10	0.100	1.000	0	110	42	151				
1,2,3-Trichlorobenzene	1.04	0.0200	1.000	0	104	62.1	140				
Surr: Dibromofluoromethane	2.89		2.500		116	63.7	129				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-9281</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358863</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: Toluene-d8	2.47		2.500		99.0	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.61		2.500		104	63.1	141				

Sample ID: <b>MB-9281</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358864</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0600									
Chloromethane	ND	0.0600									
Vinyl chloride	ND	0.00200									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.0600									
1,1-Dichloroethene	ND	0.0500									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
1,1-Dichloroethane	ND	0.0200									
2,2-Dichloropropane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									
Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0300									
Trichloroethene (TCE)	ND	0.0200									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
cis-1,3-Dichloropropene	ND	0.0200									
trans-1,3-Dichloropropene	ND	0.0300									

**Qualifiers:** B Analyte detected in the associated Method Blank      D Dilution was required      E Value above quantitation range  
H Holding times for preparation or analysis exceeded      J Analyte detected below quantitation limits      ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits      RL Reporting Limit      S Spike recovery outside accepted recovery limits



**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-9281</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>11/12/2014</b>	RunNo: <b>18009</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>9281</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358864</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,1,2-Trichloroethane	ND	0.0300									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0200									
Dibromochloromethane	ND	0.0300									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0300									
1,1,2,2-Tetrachloroethane	ND	0.0200									
2-Chlorotoluene	ND	0.0200									
4-Chlorotoluene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0200									
1,2,4-Trichlorobenzene	ND	0.0500									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.0300									
Hexachloro-1,3-butadiene	ND	0.100									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	2.37		2.500		94.9	63.7	129				
Surr: Toluene-d8	2.54		2.500		102	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	2.53		2.500		101	63.1	141				

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-R18018</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>11/13/2014</b>	RunNo: <b>18018</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>R18018</b>					Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358945</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	17.6	1.00	20.00	0	88.0	43	136				
Chloromethane	17.8	1.00	20.00	0	88.8	43.9	139				
Vinyl chloride	18.6	0.200	20.00	0	92.8	53.6	139				
Trichlorofluoromethane (CFC-11)	18.8	1.00	20.00	0	94.2	63.7	133				
Chloroethane	24.0	1.00	20.00	0	120	53	141				
1,1-Dichloroethene	17.2	1.00	20.00	0	85.8	65.6	136				
Methylene chloride	24.5	1.00	20.00	0	122	67.1	131				
trans-1,2-Dichloroethene	15.1	1.00	20.00	0	75.6	71.7	129				
1,1-Dichloroethane	18.6	1.00	20.00	0	93.0	67.9	134				
2,2-Dichloropropane	20.4	2.00	20.00	0	102	33.7	152				
cis-1,2-Dichloroethene	17.2	1.00	20.00	0	85.8	71.1	130				
Chloroform	22.6	1.00	20.00	0	113	66.3	131				
1,1,1-Trichloroethane (TCA)	17.5	1.00	20.00	0	87.6	71	131				
1,1-Dichloropropene	20.3	1.00	20.00	0	101	74.5	126				
Carbon tetrachloride	19.0	1.00	20.00	0	95.2	66.2	134				
1,2-Dichloroethane	15.4	1.00	20.00	0	77.1	70	129				
Trichloroethene (TCE)	17.4	0.500	20.00	0	87.2	65.2	136				
1,2-Dichloropropane	19.7	1.00	20.00	0	98.7	70.5	130				
Bromodichloromethane	24.7	1.00	20.00	0	124	74.6	127				
cis-1,3-Dichloropropene	22.5	1.00	20.00	0	113	62.6	137				
trans-1,3-Dichloropropene	22.5	1.00	20.00	0	112	58.5	142				
1,1,2-Trichloroethane	22.6	1.00	20.00	0	113	76	124				
1,3-Dichloropropane	25.0	1.00	20.00	0	125	73.5	127				
Tetrachloroethene (PCE)	19.3	1.00	20.00	0	96.7	47.5	147				
Dibromochloromethane	18.5	1.00	20.00	0	92.6	67.2	134				
Chlorobenzene	19.7	1.00	20.00	0	98.4	73.9	126				
1,1,1,2-Tetrachloroethane	20.5	1.00	20.00	0	102	76.8	124				
1,1,2,2-Tetrachloroethane	25.8	1.00	20.00	0	129	62.9	132				
2-Chlorotoluene	21.4	1.00	20.00	0	107	70.8	130				

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>LCS-R18018</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>11/13/2014</b>	RunNo: <b>18018</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R18018</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358945</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

4-Chlorotoluene	23.2	1.00	20.00	0	116	70.1	131				
1,2,3-Trichloropropane	27.2	1.00	20.00	0	136	67.7	131				S
1,2,4-Trichlorobenzene	25.9	2.00	20.00	0	129	67.6	129				
1,3-Dichlorobenzene	20.0	1.00	20.00	0	100	72.4	129				
1,4-Dichlorobenzene	20.8	1.00	20.00	0	104	70.6	128				
1,2-Dichlorobenzene	21.3	1.00	20.00	0	106	74.2	129				
1,2-Dibromo-3-chloropropane	23.3	1.00	20.00	0	116	63.1	136				
Hexachlorobutadiene	16.6	4.00	20.00	0	83.2	58.6	138				
1,2,3-Trichlorobenzene	25.0	4.00	20.00	0	125	50.2	139				
Surr: Dibromofluoromethane	48.6		50.00		97.2	61.7	130				
Surr: Toluene-d8	47.8		50.00		95.7	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	58.8		50.00		118	68.2	127				

**NOTES:**

S - Outlying spike recovery observed for 1,2,3-Trichloropropane (high bias). Samples are non-detect for this analyte, no further action required.

Sample ID: <b>MB-R18018</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>11/13/2014</b>	RunNo: <b>18018</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R18018</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358946</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	0.200									
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
1,1-Dichloroethane	ND	1.00									
2,2-Dichloropropane	ND	2.00									

<b>Qualifiers:</b>	B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
	R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R18018</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>11/13/2014</b>	RunNo: <b>18018</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R18018</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358946</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
cis-1,2-Dichloroethene	ND	1.00									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
1,1,2,2-Tetrachloroethane	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
Hexachlorobutadiene	ND	4.00									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	47.6		50.00		95.2	61.7	130				

<b>Qualifiers:</b>	B Analyte detected in the associated Method Blank	D Dilution was required	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	ND Not detected at the Reporting Limit
	R RPD outside accepted recovery limits	RL Reporting Limit	S Spike recovery outside accepted recovery limits

**Work Order:** 1411117  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID: <b>MB-R18018</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>11/13/2014</b>	RunNo: <b>18018</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R18018</b>		Analysis Date: <b>11/13/2014</b>	SeqNo: <b>358946</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: Toluene-d8	46.6		50.00		93.2	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	58.2		50.00		116	68.2	127				

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range

H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit

R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits



## Sample Log-In Check List

Client Name: **GL**  
 Logged by: **Erica Silva**

Work Order Number: **1411117**  
 Date Received: **11/12/2014 11:21:00 AM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present   
 2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
 4. Shipping container/cooler in good condition? Yes  No   
 5. Custody seals intact on shipping container/cooler? Yes  No  Not Required   
 6. Was an attempt made to cool the samples? Yes  No  NA   
 7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes  No  NA   
 8. Sample(s) in proper container(s)? Yes  No   
 9. Sufficient sample volume for indicated test(s)? Yes  No   
 10. Are samples properly preserved? Yes  No   
 11. Was preservative added to bottles? Yes  No  NA   
 12. Is the headspace in the VOA vials? Yes  No  NA   
 13. Did all samples containers arrive in good condition(unbroken)? Yes  No   
 14. Does paperwork match bottle labels? Yes  No   
 15. Are matrices correctly identified on Chain of Custody? Yes  No   
 16. Is it clear what analyses were requested? Yes  No   
 17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	5.5	Good
Sample	7.1	Good





# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

December 4, 2014

Stuart Hyde  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Mr. Hyde:

Please find enclosed the analytical data report for the Gilman Square Project located in Issaquah, Washington. Soil samples were analyzed for Volatile Organic Compounds by EPA Method 8260C on November 10, 2014.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. All soil samples are reported on a dry weight basis. An invoice for this analytical work has been emailed.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

4139 Libby Road NE Olympia, WA 98506  
 Ph: 360-352-2110 Fax: 360-352-4154

Date: 11/10/14 Page: 1 of 1

Client: G-Logics, Inc

Project Manager: Stuart Hyde

Address: 46 2nd Ave SE

Project Name: Gilman Square

City: Issaquah State: WA Zip: 98045

Location: Issaquah City, State: WA

Phone: 425-391-6874 Fax:

Collector: Stuart Hyde Date of Collection: 11-10-14

Client Project # 01-0868-J

Email: stuanth@g-logics.com



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260 Chlorinated	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCB's 8082	MTCA 5 Metals				
1 DW-EX-1-62'	2'	1030	Soil			X												Cl-Solvent Site
2 DW-EX-2-60.5'	3.5'	1052																
3 DW-EX-3-61'	3'	1200																
4 DW-EX-4-58'	6'	1230																
5 DW-EX-5-58'	6'	1315																
6 DW-EX-6-61'	3'	1410																
7 DW-EX-7-58'	6'	1440																
8 DW-EX-8-59.5'	4.5'	1508																
9 DW-EX-9-59'	5'	1550																
10 DW-EX-10-57'	7'	1605																
11																		
12																		
13																		
14																		
15																		
16																		
17																		

Relinquished by: <i>Stuart Hyde</i>	Date / Time: 11/10/14 1615	Received by: <i>[Signature]</i>	Date / Time: 11/10/14 1615	Sample Receipt:	Remarks:  <i>ML</i>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
				Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

GILMAN SQUARE PROJECT

G-Logics, Inc.

Issaquah, Washington

Libby Project # L141110-40

Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description	Method	DW-EX-1-	DW-EX-2-	DW-EX-3-	DW-EX-3-	DW-EX-4-	
	Blank	62'	60.5'	61'	61' Dup	58'	
Date Sampled	Reporting	N/A	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14
Date Analyzed	Limits	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
<b>Surrogate Recovery</b>							
Dibromofluoromethane		126	122	133	132	127	111
1,2-Dichloroethane-d4		124	128	121	134	132	125
Toluene-d8		83	82	85	92	94	90
4-Bromofluorobenzene		105	77	91	82	75	72

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

\* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

GILMAN SQUARE PROJECT

G-Logics, Inc.

Issaquah, Washington

Libby Project # L141110-40

Client Project # 01-0868-J

## Volatile Organic Compounds by EPA Method 8260C in Soil

Sample Description	Reporting Limits (mg/kg)	DW-EX-5-	DW-EX-6-	DW-EX-7-	DW-EX-8-	DW-EX-9-	DW-EX-10-
		58'	61'	58'	59.5'	59'	57'
Date Sampled	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14
Date Analyzed	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14	11/10/14
Chloromethane	0.06	nd	nd	nd	nd	nd	nd
Vinyl chloride	0.02	nd	nd	nd	nd	nd	nd
Chloroethane	0.06	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	0.05	nd	nd	nd	nd	nd	nd
<i>trans</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	0.02	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	0.05	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,2-Dichloroethene	0.02	nd	nd	nd	nd	nd	nd
Chloroform	0.02	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane (TCA)	0.02	nd	nd	nd	nd	nd	nd
Carbon tetrachloride	0.03	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	nd
Trichloroethene (TCE)	0.02	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	0.02	nd	nd	nd	nd	nd	nd
<i>cis</i> -1,3-Dichloropropene	0.02	nd	nd	nd	nd	nd	nd
<i>Trans</i> -1,3-Dichloropropene	0.03	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	0.03	nd	nd	nd	nd	nd	nd
Tetrachloroethene (PCE)	0.02	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	0.02	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	0.03	nd	nd	nd	nd	nd	nd
<b>Surrogate Recovery</b>							
Dibromofluoromethane	99	113	124	112	112	119	119
1,2-Dichloroethane-d4	104	126	135	133	125	129	129
Toluene-d8	75	90	93	90	77	90	90
4-Bromofluorobenzene	78	80	82	82	86	85	85

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

\* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

4139 Libby Road NE  
Olympia, WA 98506  
Phone: (360) 352-2110  
FAX: (360) 352-4154  
Email: libbyenv@aol.com

GILMAN SQUARE PROJECT  
G-Logics, Inc.  
Issaquah, Washington  
Libby Project # L141110-40  
Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: DW-EX-1-62'							
	Matrix Spike			Matrix Spike Duplicate			RPD
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
1,1-Dichloroethene	0.50	0.53	106	0.50	0.53	106	0.0
Chlorobenzene	0.50	0.52	104	0.50	0.50	100	3.9
Trichloroethene (TCE)	0.50	0.60	119	0.50	0.58	116	2.7
Surrogate Recovery							
Dibromofluoromethane			123			133	
1,2-Dichloroethane-d4			129			122	
Toluene-d8			83			108	
4-Bromofluorobenzene			81			88	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
1,1-Dichloroethene	0.50	0.50	100
Chlorobenzene	0.50	0.45	90
Trichloroethene (TCE)	0.50	0.53	106
Surrogate Recovery			
Dibromofluoromethane			126
1,2-Dichloroethane-d4			134
Toluene-d8			79
4-Bromofluorobenzene			98

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

# APPENDIX H



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde

40 Second Ave. SE

Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1506293**

July 02, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 3 sample(s) on 6/25/2015 for the analyses presented in the following report.

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 07/02/2015

---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1506293

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1506293-001	GL-MW-11	06/25/2015 10:30 AM	06/25/2015 2:21 PM
1506293-002	GL-MW-12	06/25/2015 10:45 AM	06/25/2015 2:21 PM
1506293-003	GL-MW-13	06/25/2015 11:00 AM	06/25/2015 2:21 PM

---

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1506293  
Date Reported: 7/2/2015

**Client:** G-Logics

**Collection Date:** 6/25/2015 10:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1506293-001

**Matrix:** Groundwater

**Client Sample ID:** GL-MW-11

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23274      Analyst: BC

Vinyl chloride	0.429	0.200		µg/L	1	6/28/2015 2:09:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:09:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:09:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:09:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/28/2015 2:09:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/28/2015 2:09:00 AM
Surr: Dibromofluoromethane	95.5	77.4-147		%REC	1	6/28/2015 2:09:00 AM
Surr: Toluene-d8	98.0	40.1-139		%REC	1	6/28/2015 2:09:00 AM
Surr: 1-Bromo-4-fluorobenzene	88.0	64.2-128		%REC	1	6/28/2015 2:09:00 AM



# Analytical Report

WO#: 1506293  
 Date Reported: 7/2/2015

**Client:** G-Logics

**Collection Date:** 6/25/2015 10:45:00 AM

**Project:** Gilman Square

**Lab ID:** 1506293-002

**Matrix:** Groundwater

**Client Sample ID:** GL-MW-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23274      Analyst: BC

Vinyl chloride	0.751	0.200		µg/L	1	6/28/2015 2:37:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:37:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:37:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 2:37:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/28/2015 2:37:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/28/2015 2:37:00 AM
Surr: Dibromofluoromethane	100	77.4-147		%REC	1	6/28/2015 2:37:00 AM
Surr: Toluene-d8	112	40.1-139		%REC	1	6/28/2015 2:37:00 AM
Surr: 1-Bromo-4-fluorobenzene	96.5	64.2-128		%REC	1	6/28/2015 2:37:00 AM



# Analytical Report

WO#: 1506293  
Date Reported: 7/2/2015

**Client:** G-Logics

**Collection Date:** 6/25/2015 11:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1506293-003

**Matrix:** Groundwater

**Client Sample ID:** GL-MW-13

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23274      Analyst: BC

Vinyl chloride	ND	0.200		µg/L	1	6/28/2015 3:06:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 3:06:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 3:06:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	6/28/2015 3:06:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	6/28/2015 3:06:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	6/28/2015 3:06:00 AM
Surr: Dibromofluoromethane	98.7	77.4-147		%REC	1	6/28/2015 3:06:00 AM
Surr: Toluene-d8	91.8	40.1-139		%REC	1	6/28/2015 3:06:00 AM
Surr: 1-Bromo-4-fluorobenzene	99.8	64.2-128		%REC	1	6/28/2015 3:06:00 AM



**Work Order:** 1506293  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506293-003AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/28/2015</b>	RunNo: <b>23274</b>							
Client ID: <b>GL-MW-13</b>	Batch ID: <b>R23274</b>		Analysis Date: <b>6/28/2015</b>	SeqNo: <b>440888</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	25.1	0.200	20.00	0	125	58.1	158				
1,1-Dichloroethene	24.0	1.00	20.00	0	120	63	141				
trans-1,2-Dichloroethene	21.8	1.00	20.00	0	109	63.5	138				
cis-1,2-Dichloroethene	20.4	1.00	20.00	0.09630	102	67.1	123				
Trichloroethene (TCE)	19.0	0.500	20.00	0	95.2	60.4	134				
Tetrachloroethene (PCE)	20.4	1.00	20.00	0.1075	101	50.3	133				
Surr: Dibromofluoromethane	26.4		25.00		106	77.4	147				
Surr: Toluene-d8	22.8		25.00		91.1	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	25.4		25.00		101	64.2	128				

Sample ID <b>LCS-R23274</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/27/2015</b>	RunNo: <b>23274</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R23274</b>		Analysis Date: <b>6/27/2015</b>	SeqNo: <b>440901</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	25.1	0.200	20.00	0	126	53.6	139				
1,1-Dichloroethene	24.3	1.00	20.00	0	121	65.6	136				
trans-1,2-Dichloroethene	22.6	1.00	20.00	0	113	71.7	129				
cis-1,2-Dichloroethene	20.4	1.00	20.00	0	102	71.1	130				
Trichloroethene (TCE)	19.7	0.500	20.00	0	98.6	65.2	136				
Tetrachloroethene (PCE)	20.3	1.00	20.00	0	102	47.5	147				
Surr: Dibromofluoromethane	26.7		25.00		107	77.4	147				
Surr: Toluene-d8	25.0		25.00		100	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.6		25.00		98.5	64.2	128				

Sample ID <b>MB-R23274</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/27/2015</b>	RunNo: <b>23274</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R23274</b>		Analysis Date: <b>6/27/2015</b>	SeqNo: <b>440902</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	1.00									

Work Order: 1506293  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>MB-R23274</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>6/27/2015</b>	RunNo:	<b>23274</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R23274</b>			Analysis Date:	<b>6/27/2015</b>	SeqNo:	<b>440902</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	1.00									
Surr: Dibromofluoromethane	25.6		25.00		102	77.4	147				
Surr: Toluene-d8	27.4		25.00		110	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.2		25.00		96.8	64.2	128				

Sample ID	<b>1506307-001ADUP</b>	SampType:	<b>DUP</b>	Units:	<b>µg/L</b>	Prep Date:	<b>6/28/2015</b>	RunNo:	<b>23274</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>R23274</b>			Analysis Date:	<b>6/28/2015</b>	SeqNo:	<b>440904</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	1.00						0		30	
trans-1,2-Dichloroethene	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Surr: Dibromofluoromethane	25.3		25.00		101	77.4	147		0		
Surr: Toluene-d8	23.9		25.00		95.6	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	26.3		25.00		105	64.2	128		0		



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1506293</b>
Logged by: <b>Erica Silva</b>	Date Received: <b>6/25/2015 2:21:00 PM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	7.1
Sample	9.8

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C





3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1509052**

September 10, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 2 sample(s) on 9/2/2015 for the analyses presented in the following report.

***Dissolved Metals by EPA Method 200.8***

***Ion Chromatography by EPA Method 300.0***

***Total Metals by EPA Method 200.8***

***Total Organic Carbon by SM 5310B***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



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**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1509052

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**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1509052-001	GL-MW-11	09/02/2015 1:45 PM	09/02/2015 3:00 PM
1509052-002	GL-MW-12	09/02/2015 12:45 PM	09/02/2015 3:00 PM

**CLIENT:** G-Logics  
**Project:** Gilman Square

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

**Qualifiers:**

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

**Acronyms:**

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1509052

Date Reported: 9/10/2015

**Client:** G-Logics

**Collection Date:** 9/2/2015 1:45:00 PM

**Project:** Gilman Square

**Lab ID:** 1509052-001

**Matrix:** Groundwater

**Client Sample ID:** GL-MW-11

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R24728      Analyst: BC

Vinyl chloride	0.568	0.200		µg/L	1	9/5/2015 4:31:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/5/2015 4:31:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/5/2015 4:31:00 AM
cis-1,2-Dichloroethene	1.07	1.00		µg/L	1	9/5/2015 4:31:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/5/2015 4:31:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/5/2015 4:31:00 AM
Surr: Dibromofluoromethane	99.7	45.4-152		%REC	1	9/5/2015 4:31:00 AM
Surr: Toluene-d8	99.9	40.1-139		%REC	1	9/5/2015 4:31:00 AM
Surr: 1-Bromo-4-fluorobenzene	95.9	64.2-128		%REC	1	9/5/2015 4:31:00 AM

**Ion Chromatography by EPA Method 300.0**

Batch ID: R24696      Analyst: KT

Nitrite	ND	0.500	D	mg/L	5	9/3/2015 2:43:00 PM
Nitrate	4.79	0.500	D	mg/L	5	9/3/2015 2:43:00 PM
Sulfate	40.9	1.50	D	mg/L	5	9/3/2015 2:43:00 PM

**NOTES:**

Sample diluted due to high levels of target and non-target analytes.

**Dissolved Metals by EPA Method 200.8**

Batch ID: 11766      Analyst: TN

Iron	5,600	100		µg/L	1	9/3/2015 3:06:53 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 11765      Analyst: TN

Iron	7,730	100		µg/L	1	9/3/2015 4:13:53 PM
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**Total Organic Carbon by SM 5310B**

Batch ID: R24754      Analyst: KT

Total Organic Carbon	7.68	4.00		mg/L	1	9/9/2015 12:04:00 PM
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# Analytical Report

WO#: 1509052

Date Reported: 9/10/2015

**Client:** G-Logics

**Collection Date:** 9/2/2015 12:45:00 PM

**Project:** Gilman Square

**Lab ID:** 1509052-002

**Matrix:** Groundwater

**Client Sample ID:** GL-MW-12

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R24728      Analyst: BC

Vinyl chloride	0.378	0.200		µg/L	1	9/5/2015 4:59:00 AM
1,1-Dichloroethene	ND	1.00		µg/L	1	9/5/2015 4:59:00 AM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	9/5/2015 4:59:00 AM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	9/5/2015 4:59:00 AM
Trichloroethene (TCE)	ND	0.500		µg/L	1	9/5/2015 4:59:00 AM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	9/5/2015 4:59:00 AM
Surr: Dibromofluoromethane	99.4	45.4-152		%REC	1	9/5/2015 4:59:00 AM
Surr: Toluene-d8	99.2	40.1-139		%REC	1	9/5/2015 4:59:00 AM
Surr: 1-Bromo-4-fluorobenzene	96.5	64.2-128		%REC	1	9/5/2015 4:59:00 AM

**Ion Chromatography by EPA Method 300.0**

Batch ID: R24696      Analyst: KT

Nitrite	ND	0.500	D	mg/L	5	9/3/2015 3:50:00 PM
Nitrate	4.74	0.500	D	mg/L	5	9/3/2015 3:50:00 PM
Sulfate	40.7	1.50	D	mg/L	5	9/3/2015 3:50:00 PM

**NOTES:**

Sample diluted due to high levels of target and non-target analytes.

**Dissolved Metals by EPA Method 200.8**

Batch ID: 11766      Analyst: TN

Iron	6,760	100		µg/L	1	9/3/2015 3:10:24 PM
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**Total Metals by EPA Method 200.8**

Batch ID: 11765      Analyst: TN

Iron	9,420	100		µg/L	1	9/3/2015 4:17:25 PM
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**Total Organic Carbon by SM 5310B**

Batch ID: R24754      Analyst: KT

Total Organic Carbon	4.95	4.00		mg/L	1	9/9/2015 12:05:00 PM
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Date: 9/10/2015

Work Order: 1509052  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

Sample ID	<b>MB-R24696</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/L</b>	Prep Date:	<b>9/3/2015</b>	RunNo:	<b>24696</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R24696</b>			Analysis Date:	<b>9/3/2015</b>	SeqNo:	<b>465462</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrite	ND	0.100									
Nitrate	ND	0.100									
Sulfate	ND	0.300									

Sample ID	<b>LCS-R24696</b>	SampType:	<b>LCS</b>	Units:	<b>mg/L</b>	Prep Date:	<b>9/3/2015</b>	RunNo:	<b>24696</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>R24696</b>			Analysis Date:	<b>9/3/2015</b>	SeqNo:	<b>465463</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrite	2.72	0.100	3.000	0	90.5	90	110				
Nitrate	2.79	0.100	3.000	0	92.9	90	110				
Sulfate	14.2	0.300	15.00	0	95.0	90	110				

Sample ID	<b>1509049-001CDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/L</b>	Prep Date:	<b>9/3/2015</b>	RunNo:	<b>24696</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>R24696</b>			Analysis Date:	<b>9/3/2015</b>	SeqNo:	<b>465465</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrite	ND	0.500						0		20	D
Nitrate	3.86	0.500						3.919	1.65	20	D
Sulfate	50.9	1.50						51.07	0.265	20	D

Sample ID	<b>1509049-001CMS</b>	SampType:	<b>MS</b>	Units:	<b>mg/L</b>	Prep Date:	<b>9/3/2015</b>	RunNo:	<b>24696</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>R24696</b>			Analysis Date:	<b>9/3/2015</b>	SeqNo:	<b>465466</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Nitrite	14.7	0.500	15.00	0	98.0	80	120				D
Nitrate	16.9	0.500	15.00	3.919	86.4	80	120				D
Sulfate	125	1.50	75.00	51.07	98.5	80	120				D



Date: 9/10/2015

Work Order: 1509052  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

Sample ID	<b>1509049-001CMSD</b>	SampType:	<b>MSD</b>	Units:	<b>mg/L</b>	Prep Date:	<b>9/3/2015</b>	RunNo:	<b>24696</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>R24696</b>			Analysis Date:	<b>9/3/2015</b>	SeqNo:	<b>465467</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite	14.9	0.500	15.00	0	99.3	80	120	14.71	1.27	20	D
Nitrate	16.9	0.500	15.00	3.919	86.7	80	120	16.87	0.272	20	D
Sulfate	125	1.50	75.00	51.07	99.0	80	120	125.0	0.300	20	D





**Work Order:** 1509052  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA Method 200.8**

Sample ID <b>MB-11761FB</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>9/3/2015</b>	RunNo: <b>24699</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>11766</b>				Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465499</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 100

Sample ID <b>MB-11766</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>9/3/2015</b>	RunNo: <b>24699</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>11766</b>				Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465500</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 100

Sample ID <b>LCS-11766</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>9/3/2015</b>	RunNo: <b>24699</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>11766</b>				Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465501</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1,060 100 1,000 0 106 50 150

Sample ID <b>1509041-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>9/3/2015</b>	RunNo: <b>24699</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11766</b>				Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465503</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 100 0 30

Sample ID <b>1509041-001BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>9/3/2015</b>	RunNo: <b>24699</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11766</b>				Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465504</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5,140 100 5,000 0 103 50 150



Date: 9/10/2015

**Work Order:** 1509052  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Dissolved Metals by EPA Method 200.8**

Sample ID	1509041-001BMSD	SampType:	MSD	Units:	µg/L	Prep Date:	9/3/2015	RunNo:	24699		
Client ID:	BATCH	Batch ID:	11766			Analysis Date:	9/3/2015	SeqNo:	465505		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Iron	4,910	100	5,000	0	98.2	50	150	5,138	4.52	30	



**Work Order:** 1509052  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID <b>MB-11765</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>9/3/2015</b>	RunNo: <b>24700</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>11765</b>					Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465533</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 100

Sample ID <b>LCS-11765</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>9/3/2015</b>	RunNo: <b>24700</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>11765</b>					Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465534</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 1,070 100 1,000 0 107 50 150

Sample ID <b>1509041-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>				Prep Date: <b>9/3/2015</b>	RunNo: <b>24700</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11765</b>					Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465536</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron ND 100 0 30

Sample ID <b>1509041-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>				Prep Date: <b>9/3/2015</b>	RunNo: <b>24700</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11765</b>					Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465537</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5,410 100 5,000 96.26 106 50 150

Sample ID <b>1509041-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>				Prep Date: <b>9/3/2015</b>	RunNo: <b>24700</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11765</b>					Analysis Date: <b>9/3/2015</b>	SeqNo: <b>465538</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Iron 5,430 100 5,000 96.26 107 50 150 5,414 0.317 30



Work Order: 1509052  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>LCS-R24728</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>9/5/2015</b>	RunNo:	<b>24728</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>R24728</b>			Analysis Date:	<b>9/5/2015</b>	SeqNo:	<b>466039</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.4	0.200	20.00	0	112	53.6	139				
1,1-Dichloroethene	21.7	1.00	20.00	0	109	65.6	136				
trans-1,2-Dichloroethene	20.7	1.00	20.00	0	103	71.7	129				
cis-1,2-Dichloroethene	21.6	1.00	20.00	0	108	71.1	130				
Trichloroethene (TCE)	21.3	0.500	20.00	0	106	65.2	136				
Tetrachloroethene (PCE)	21.3	1.00	20.00	0	107	47.5	147				
Surr: Dibromofluoromethane	25.2		25.00		101	45.4	152				
Surr: Toluene-d8	24.6		25.00		98.6	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.6	64.2	128				

Sample ID	<b>MB-R24728</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>9/5/2015</b>	RunNo:	<b>24728</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R24728</b>			Analysis Date:	<b>9/5/2015</b>	SeqNo:	<b>466040</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200									
1,1-Dichloroethene	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
cis-1,2-Dichloroethene	ND	1.00									
Trichloroethene (TCE)	ND	0.500									
Tetrachloroethene (PCE)	ND	1.00									
Surr: Dibromofluoromethane	23.7		25.00		94.9	45.4	152				
Surr: Toluene-d8	25.5		25.00		102	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	23.6		25.00		94.5	64.2	128				

Sample ID	<b>1509063-002ADUP</b>	SampType:	<b>DUP</b>	Units:	<b>µg/L</b>	Prep Date:	<b>9/5/2015</b>	RunNo:	<b>24728</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>R24728</b>			Analysis Date:	<b>9/5/2015</b>	SeqNo:	<b>466033</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	ND	0.200						0		30	
1,1-Dichloroethene	ND	1.00						0		30	



**Work Order:** 1509052  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1509063-002ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>9/5/2015</b>	RunNo: <b>24728</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R24728</b>	Analysis Date: <b>9/5/2015</b>	SeqNo: <b>466033</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	1.00						0		30	
Trichloroethene (TCE)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	1.00						0		30	
Surr: Dibromofluoromethane	24.9		25.00		99.6	45.4	152		0		
Surr: Toluene-d8	24.8		25.00		99.2	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	24.0		25.00		96.1	64.2	128		0		

Sample ID <b>1509063-003AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>9/5/2015</b>	RunNo: <b>24728</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R24728</b>	Analysis Date: <b>9/5/2015</b>	SeqNo: <b>466035</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl chloride	22.7	0.200	20.00	0	113	58.1	158				
1,1-Dichloroethene	22.1	1.00	20.00	0	111	63	141				
trans-1,2-Dichloroethene	21.9	1.00	20.00	0	110	63.5	138				
cis-1,2-Dichloroethene	22.5	1.00	20.00	0	113	67.1	123				
Trichloroethene (TCE)	22.0	0.500	20.00	0	110	60.4	134				
Tetrachloroethene (PCE)	21.6	1.00	20.00	0	108	50.3	133				
Surr: Dibromofluoromethane	25.3		25.00		101	45.4	152				
Surr: Toluene-d8	24.8		25.00		99.3	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	25.4		25.00		102	64.2	128				



# Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1509052</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>9/2/2015 3:00:00 PM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA

### Samples received straight from field.

8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA   
HNO3, H2SO4
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	8.6
Sample	12.1

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# APPENDIX I



August 25, 2015  
G-Logics Project Number 01-0868-J

Mr. Kurt Reiswig  
LMC Gilman Square, LLC  
1325 Fourth Ave, Suite 1700  
Seattle, WA 98101

**Subject: Change Order #5,  
Additional Authorization for Enhanced-Anaerobic Bioremediation  
Gilman Square  
615 NW Gilman Blvd  
Issaquah, WA**

Dear Mr. Reiswig:

G-Logics is pleased to submit this letter requesting an additional budget authorization to perform supplementary cleanup actions at the above-referenced property (the "Site"). Currently, low-level concentrations of vinyl chloride are present in the perched groundwater above MTCA Method A cleanup levels. The remaining residual contamination at the Site is associated with the former drycleaner and is contained within the Property boundaries. Based on the accelerated schedule of approximately two years (as specified by Mr. Dan Shieder at LMC Gilman Square, LLC) to receive a No Further Action (NFA) determination from Ecology, G-Logics recommends using in-situ bioremediation technology to address the residual groundwater contamination at the Site.

### **Background**

Based on the analytical results from previous subsurface explorations, it appears that aquifer conditions at the Site are anaerobic and that the majority of Site contaminants have naturally biodegraded to concentrations below MTCA Method A cleanup levels. If left alone, the low-level concentrations of vinyl chloride occasionally present in the

**G-Logics, Inc.**  
40 2nd Avenue SE  
Issaquah, WA 98027  
T: 425-391-6874  
F: 425-313-3074  
01-0868-J-RT-AK.doc

groundwater would naturally attenuate to below cleanup levels. However, because of the accelerated timeframe requested to achieve an NFA at the Site, G-Logics recommends using in-situ, enhanced-anaerobic bioremediation (EAB) technology as a cost efficient and viable method to further achieve contaminant reductions.

This change order includes budget for the required time and materials for G-Logics field staff to design, implement, and augment conditions for EAB. Additional budget also is included for drilling services to replace a critical groundwater-monitoring well that sustained unrepairable damages during construction activities.

### **Enhanced-Anaerobic Bioremediation Discussion**

In-situ EAB requires the addition of an “amendment” (mix of nutrients and a carbon source) to the subsurface in order to increase natural microbial activity. The subsurface microbial community uses chlorinated solvents as an energy source, effectively degrading the contaminants to more benign compounds such as ethylene. Depending on the Site conditions, additional microbes also can be added to the subsurface to increase productivity.

In-situ EAB has been successfully used at other sites as a cleanup action for reducing chlorinated-solvent contaminants (i.e., vinyl chloride). Design of such in-situ systems is site-specific and requires an understanding of geochemical properties and subsurface conditions. G-Logics approach to completing in-situ EAB is based on the following Site understanding.

- A carbon source is required to enhance microbial activity and strengthen reducing conditions.
- Site contaminants appear to be slowly naturally attenuating. Given the apparent mass reduction over time through natural processes, G-Logics understands the aquifer is anaerobic and has bacteria capable of complete reduction of vinyl chloride.
- G-Logics understands that trace levels of vinyl chloride contaminants exists in the dissolved phase (less than 1 ug/L vinyl chloride) at GL-MW-11 and GL-MW-12. Although low contaminant mass appears to exist in the dissolved phase, contaminant mass is assumed to be sorbed to subsurface soils, likely causing a slow dissolution of contaminants into the aquifer. Delivering amendment to the subsurface to promote EAB may temporarily increase dissolved-phase mass (and therefore temporarily increase chlorinated-solvent concentrations in the groundwater). However, this process will help to remove the “source” of dissolved-phase contamination.

- Delivery of amendment will be completed via gravity feed. Amendment will be delivered in 50-gallon increments at existing monitoring wells GL-MW-11, GL-MW-12, and GL-MW-13. Two full days are anticipated to complete injections.
- Maintaining an adequate aquifer pH between 6-8.5 is critical to the success of in-situ EAB. Performance monitoring will be conducted on a quarterly basis in order to monitor and potentially modify subsurface conditions so that they remain suitable for EAB. Additional efforts may be required to optimize aquifer conditions.

### **Scope of Services**

Based on our understanding of Site conditions and the requirements of LMC Gilman Square, LLC, G-Logics will perform the following tasks to implement in-situ EAB at the Site.

- Conduct a baseline sampling event to measure geochemical parameters and contaminant concentrations prior to performing injections.
- Evaluate an injection approach and procedure.
- Acquire injection permit from Ecology to perform injections.
- Procure injection chemicals and materials.
- Perform injections at GL-MW-11, GL-MW-12, and GL-MW-13.
- Monitor injection performance on a quarterly basis (four events).
- Submit a Cleanup Performance Memorandum documenting progress of EAB at one year post-injection.

In order to complete in-situ EAB at the Site, the following activities also are covered under this change order:

- Install a 2-inch monitoring well to replace existing monitoring well GL-MW-13 (previously damaged during construction activities).
- Collect groundwater geochemical parameters and samples to support an NFA decision.

### **Project Schedule**

G-Logics will conduct baseline monitoring within two weeks of authorization of work. Upon receipt of laboratory analytical data, G-Logics will evaluate an injection procedure, procure chemicals and materials, and coordinate with third-party services (e.g., schedule

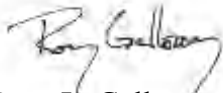
drilling subcontractor, perform utility clearance, acquire injection permit). G-Logics assumes injection and drilling field work will be conducted within 30 days after baseline sampling, pending injection permit approval. After injections are complete, G-Logics will conduct four quarters of performance monitoring to assess and document groundwater conditions.

**Authorization**

In accordance with our signed contract #21472323, a signed copy of this letter, returned to us and will serve as your authorization for the additional project funding.

We appreciate this opportunity to provide our services to LMC. Please contact us at your convenience with any questions.

Sincerely,  
**G-Logics, Inc.**



Rory L. Galloway, LG, LHG  
Principal

Steve Holmes, P.E.  
Environmental Engineer

---

Additional funding approved by (signature)  
LMC Gilman Square, LLC

---

Date



# Underground Injection Control (UIC) Well Registration Form for Voluntary or Independent Cleanup Sites

The purpose of this form is to register with the Department of Ecology UIC wells used at voluntary clean up sites that inject products or treated ground water

## A. Facility Name and Location

Facility Name Gilman Square  
 Facility Address 615 NW Gilman Blvd  
 City Issaquah State WA ZIP 98027  
 Phone at the facility Rob Shaffer, Site Construction Super, (206) 445-2128  
 County King County, Parcel 2824069284  
 Township, Range, Section, Quarter-Quarter 24N 6E, 21-SW-SE, 28-NW-NE

## B. Contact Information

### Well Owner

Name LMC Gilman Square LLC  
 Organization Developer  
 Address 1325 Fourth Ave, Suite 1700  
 City Seattle State WA ZIP 98101  
 Phone (206) 683-2966  
 Email dau.steider@lennar.com

### Property Owner

Same as Well Owner:   
 If not the same, complete below:  
 Name \_\_\_\_\_  
 Organization \_\_\_\_\_  
 Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_  
 Phone \_\_\_\_\_

### Technical Contact Person, if applicable (Engineer, Contractor, Consultant)

Name Stuart Hyde  
 Organization Ge-Logics, Inc. / Env. Consultant  
 Address 40 2nd Ave SE  
 City Issaquah State WA ZIP 98027  
 Phone 425-391-6874  
 Email \_\_\_\_\_

## Facility Description

List the Primary Standard Industrial Classification Code (SIC) or NAIC Code for your facility (<http://www.census.gov/epcd/www/naics.html>)

SIC Code \_\_\_\_\_ or NAIC Code \_\_\_\_\_

### Briefly describe the type or nature of business at this facility:

Facility previously a retail shopping center. Currently being redeveloped into three residential multi-family apartment complexes.  
-A dry-cleaning business previously was located in the shopping center.

### C. Site and Project information

The following information is required to determine rule authorization for UIC wells used at a **voluntary clean up site**. Please attach this information with your registration.

1. Describe the overall process. The table in Section E provides a place to list injection substances, amounts by weight, estimated volumes and the estimated maximum concentrations as the substance leaves the injection well. Alternatively, you may attach this information on a separate sheet.
2. Site map including the location of monitoring wells, UIC wells, the plume and ground water flow direction.
3. Drill logs and as-built drawings of monitoring wells.
4. Characterization of the hydrogeology at the site; include the depth to ground water, flow direction and hydraulic gradient.
5. Detailed evaluation of whether injected products and by products will be contained on site or not. Include a brief description of the monitoring plan, include the monitoring frequency, list of monitored wells and analytes tested.
6. Description of potential by-products.
7. Description of existing ground water quality.
8. Copy of access agreement if working on neighboring property

Approximately when will the injection project start? November 1, 2015  
Approximately when will the injection project end? June 1, 2016  
Distance from property line to nearest of surface water, to the nearest foot: 620 ft  
Distance from property line to nearest drinking water well, to the nearest foot: 855 ft

Which drinking water supply wellhead protection area or source water intake protection area is the site located in (See the Washington State Department of Health website for protection areas in each county: Department of Health wellhead mapping? List the water district or none.

Dept. of Ecology Voluntary Cleanup Program Site Manager: Galyis Carrosino Issaquah Water System, ID 36390  
Dept. of Ecology Voluntary Cleanup Program Site Number NW 2823

### E. Other UIC Well Information

	1	2	3	4	5	6	7
Well ID Name or Number	B1K-977	B1K-978	B1K-979				
Latitude (decimal)	47.541904	47.541888	47.541729				
Longitude (decimal)	-122.046819	-122.046546	-122.046656				
Construction Date	6/24/15	6/24/15	6/24/15				
EPA Well Type (see table)	SX26	SX26	SX26				
Status (Active, Unused, Closed, Proposed)	A	A	A				
Depth of UIC well	13 ft	14 ft	11 ft				
<b>Injectate Information (Use this table or attach on a separate sheet)</b>							
Injectate substance	90% WATER, 10% LACTATE	100% LACTATE					
Mass	419	417	417				
Mass Units	lb	lb	lb				
Volume <sup>1</sup>	50 GAL	50 GAL	50 GAL				
Volume Units	GAL	GAL	GAL				
Concentration <sup>2</sup>	100 wt/wt LACTATE						
Concentration Units	wt/wt	wt/wt	wt/wt				

<sup>1</sup> Volume includes water or other liquid that is mixed with the injectate prior to injection.

<sup>2</sup> Estimate what the maximum concentration would be as the substance leaves the injection well.

### EPA Class V Well Types

5A19 Cooling Water Return	5A6 Geothermal Heat	5W11 Septic System	
5D2 Stormwater	5R21 Aquifer Recharge	5W20 Industrial Process Water	5X26 Aquifer Remediation
5D4 Industrial Storm Runoff	5W9 Untreated Sewage	5W31 Septic System (well disposal)	5X27 Other Wells
5G30 Special Drainage Water	5W10 Cesspool	5W32 Septic System (drainfield)	5X28 Motor Vehicle Waste

## Signature of authorized representative

I hereby certify that the information contained in this registration is true and correct to the best of my knowledge.

\_\_\_\_\_  
Name of legally authorized representative

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature of legally authorized representative

\_\_\_\_\_  
Date

<b>For Department Use Only</b>	
Site ID:	
Date received:	
Date acknowledged:	
Date Entered:	
Final Disposition:	

***Please send completed form to:  
UIC Coordinator  
Water Quality Program,  
Washington Department of Ecology  
P.O. Box 47600  
Olympia, WA 98504-7600***

*If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6404. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

## Instructions for the UIC Well Registration Form for Voluntary Cleanup Site

### A. Facility Name and Location

Provide the name, address, and phone number of the facility where the UIC wells are or will be located. Provide the county parcel number for the facility.

### B. Contact Information

**Well Owner:** Provide the well owner's name, organization, address and phone number.  
Property Owner: Complete if different than the Well owner

**Technical Contact:** Provide the name, organization, address, and telephone number of the person to contact in case there are any questions about this registration.

### C. Facility Description

**SIC or NAIC Codes for your industry or commercial business:** Enter the Standard Industrial Classification (SIC) four-digit code **or** North American Industry Classification System five or six-digit code (NAICS) for the facility.

These codes are used to describe the primary activity at the facility that generates the most money and may be found on fire marshal reports, insurance papers, or tax forms. The NAICS codes replaced the SIC system in 1997; however, it is usually easy to convert between the two systems so either code is acceptable. SIC or NAICS information is also available from the U.S. Census Bureau at 1-888-756-2427 or at <http://www.naics.com/search.htm>. Include a secondary code if applicable.

**Briefly describe the type or nature of business at this facility:** For example, a gas station, rental business for the home, yard, and contractor equipment with in-house maintenance shop, or retail convenience store.

### D. Site and Project Information

Provide the answers to questions, section D as an attachment. Some of the questions can be answered in section E. Ecology will contact you if the additional information is needed.

### E. Other UIC Well Information

- Well ID: Provide your well identification name or number.
- Latitude and longitude: Enter the latitude and longitude in decimal degrees for each UIC well. Visit <http://ww4.doh.wa.gov/scripts/esrimap.dll?Name=geoview&Cmd=Map> and type the address in at the bottom of the screen. Locational information including, latitude and longitude will be found in a table below the map.
- Construction Date: Provide the approximate date the well was installed. EPA well type:
- EPA well types are listed in the table 1 below.
- Status: Active if the well is in use; unused if well is not in use, closed, or proposed if the well is in the design phase.
- Well depth: Provide the approximate well depth.
- Injection substance: provide name of product to be injected.
- Provide mass of injected substance and mass units.
- Provide the mass units of the injected substance.
- Provide the volume, volume units, concentration of the injected fluid and the concentration units.

If you need *this document in a format for the visually impaired*, call the Water Quality Program at 360-407-6404. *Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

## **SITE AND PROJECT INFORMATION**

1. Describe the overall process. The table in Section E provides a place to list injection substances, amounts by weight, estimated volumes and the estimated maximum concentrations as the substance leaves the injection well. Alternatively, you may attach this information on a separate sheet.
  - a. This is described in Section E. In brief, this work consists of introducing nutrients and carbon into the subsurface to enhance anaerobic bioremediation and biodegradation of low-level concentrations of vinyl chloride in the groundwater.
2. Site map including the location of monitoring wells, UIC wells, the plume and ground water flow direction.
  - a. Site maps are attached.
3. Drill logs and as-built drawings of monitoring wells.
  - a. Well Logs are attached.
4. Characterization of the hydrogeology at the site; include the depth to ground water, flow direction and hydraulic gradient.
  - a. Perched groundwater at the site is found at approximate depths of 4 to 5 feet. During geotechnical testpit work, light to moderate groundwater seepage was encountered at this depth and located above an underlying silt/clay soil layer. A hydraulically connected groundwater zone is located at a depth of approximately 15 feet (below the silt/clay layer) and is under slight artesian pressure. The vinyl-chloride contaminants are present only in the perched groundwater at the site.
  - b. Groundwater flow directions have historically been to the north, northeast, and northwest, with a very low hydraulic gradient. Due to dewatering activities for building construction, flow directions have been found flowing both to the north and to the south, depending on the time of year and construction activities occurring at that time. Hydraulic gradients remain very low.

5. Detailed evaluation of whether injected products and by products will be contained on site or not. Include a brief description of the monitoring plan, include the monitoring frequency, list of monitored wells and analytes tested.
  - a. Injected products will remain on-site. 90 percent of the injected material will be potable water, 10 percent will be a sodium lactate substrate, and <0.1 percent will be sodium bicarbonate (i.e., baking soda). Sodium lactate is a non-toxic, relatively immobile substrate. The sodium lactate will sorb to native soils, and will ferment out over an approximate period of 90 days. Sodium bicarbonate will be added to maintain an adequate pH within 6-8. Monitoring will occur on a quarterly basis at the three injection wells (BIK-977, BIK-978, BIK-979), and will be analyzed for volatile organic compounds, dissolved gasses (methane, ethane, ethene), total organic carbon, and ferrous iron. pH and oxidation reduction potential will be monitored using a field kit.
6. Description of potential by-products.
  - a. The sodium lactate substrate is 60% fermentable material, which will ferment to fatty acids (e.g., lactic acid). Primary by-products include lactic acid, carbon dioxide, and methane. The injected material will degrade vinyl chloride (currently present in groundwater at the Site) to less harmful by-products (carbon dioxide).
7. Description of existing ground water quality.
  - a. The shallow groundwater present in the wells is interpreted to be infiltrated surfacewater and not representative of the regional groundwater aquifer. Tables summarizing the geochemical conditions of groundwater and contaminant concentrations are attached to this document.
8. Copy of access agreement if working on neighboring property.
  - a. No work will be conducted on neighboring properties.

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**CRRGF F KZ 'L**



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000

711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

Dear owner, operator or interested party:

This packet summarizes requirements in the underground storage tank (UST) regulations (Chapter 173-360 WAC) for permanent closure of regulated USTs. It also includes forms that must be used to complete this process. These requirements do not apply to tanks that are exempt from these regulations.

**At-a-Glance Summary of Permanent Closure Requirements:**

- At least 30 days prior to beginning permanent closure activities, a 30-Day Notice must be submitted to the Department of Ecology (Ecology).
- Decommissioning and site assessment activities must be performed by International Code Council (ICC)-certified UST service providers.
- Within 30 days of completing permanent closure activities, submit a Permanent Closure Notice signed by the ICC-certified UST Decommissioner.
- If **no** contamination is confirmed during permanent closure activities, submit the following documents to Ecology within 30 days of completing permanent closure activities.
  - A Site Check/Site Assessment Checklist signed by the ICC-certified UST Site Assessor
  - A site assessment report completed by the Site Assessor
- If contamination is confirmed during permanent closure activities, submit the following documents to Ecology within 90 days of completing permanent closure activities.
  - A Site Check/Site Assessment Checklist signed by the ICC-certified UST Site Assessor
  - A site characterization report completed by the Site Assessor

**Detailed Look at Permanent Closure:**

Ecology must be notified 30 days in advance

At least 30 days prior to beginning permanent closure activities, a 30-Day Notice must be submitted to Ecology. This form, which includes service provider and owner information, provides the UST inspector advance notice so that he or she may visit the project site while decommissioning work is being conducted. If the exact date of closure is unknown when the 30-Day Notice is submitted, be sure to contact the Ecology inspector at least three business days prior to the project start date. **It is your responsibility to contact other local authorities, including the fire marshal, for any additional policies and/or permits.**

During the 30-day notice period, the contents of the tank may be pumped from the tank and recycled or disposed of as dangerous wastes.

ICC-certified service providers must be used



Service providers performing permanent closure activities must carry proof they are certified by the International Code Council (ICC) as an UST Decommissioner and Site Assessor.

Conducting tank closures is dangerous work and should not be completed by unqualified or inexperienced persons. Failure to follow proper procedures may result in fire, explosion, and other hazards to human health or the environment.

### Permanent closure procedures

Permanent closure includes “removal”, “closure-in-place”, or “change-in-service” (i.e. changing the product stored in a tank from a regulated substance to an unregulated substance). These projects may begin 30 days **after** Ecology date stamps the 30-Day Notice and must be completed **within** 90 days after this date.

To begin the process, the ICC-certified Decommissioner will empty and clean tanks of all liquids and accumulated sludges. The tank must be properly inerted of flammable vapors, as directed by the International Fire Code. The Decommissioner must ensure the tank atmosphere and excavation area is regularly monitored for flammable or vapor concentrations until the tank is removed from both the excavation and the site. Piping, except any vent lines, shall be drained of product and be either capped or removed from the ground.

Tanks may then either be removed from the ground or filled with a solid inert material, such as CDF, a controlled density fill. Although the UST regulations allow for tanks to be closed in place, Ecology strongly recommends tanks be removed for the following reasons:

- (1) it allows for the soil conditions to be observed,
- (2) it is easier to collect soil samples needed for the site assessment (described below), and
- (3) it may make any future property transactions less complicated, as potential buyers may not want to buy a property with a buried tank on it.

If a tank will be closed-in-place, first check with the local jurisdiction and fire marshal to ensure they will allow tanks to be closed using this method.

Once a tank is removed or filled with an inert material, the UST Decommissioner is required to fill out a Permanent Closure Notice that must also be signed by the owner or operator. This notice shall be submitted to Ecology **within 30 days after tank closure** activities are completed. If the site has a facility compliance tag, the tag must also be returned to Ecology at this time.

### All permanent closures require a site assessment be conducted

A site assessment is an investigation to determine if the UST system released regulated product into the soil or groundwater. It must be performed in accordance with Ecology’s *Guidance for Site Checks and Site Assessments for USTs* and completed by an ICC-certified Site Assessor or a Washington-registered Professional Engineer (or P.E.) who is competent, by means of examination, experience, or education, to perform site assessments. The guidance provides information on sampling procedures, the number and locations of samples to be obtained, required laboratory analyses, and reporting requirements.

A Site Check/Site Assessment Checklist must be completed by the Site Assessor and submitted to Ecology **within thirty (30) days of completion of the site assessment**. A site assessment report must be submitted to Ecology within 30 days after tank closure if no confirmed contamination is discovered. If the UST

system has caused a release to the environment, then, instead, a site characterization report shall be submitted within 90 days of tank closure.

### Releases discovered during tank closure must be reported to Ecology

When contaminated soil, groundwater, or free liquid- or vapor-phase petroleum products are discovered during tank removal, site assessment, or by any other means, the owner/operator is responsible for reporting this information to Ecology within twenty-four (24) hours of discovery. The Decommissioner or Site Assessor must report confirmed releases to the owner/operator immediately and to Ecology within 72 hours after discovering the condition.

Soil contaminated by petroleum and/or hazardous substances must be remediated under the Model Toxics Control Act, which describes the process for cleaning up contaminated sites. Contaminated soil must be disposed of at a permitted facility that accepts dangerous waste. If it is to be "landfarmed" on or offsite, be sure your local jurisdiction allows this and that you understand all the requirements for this remediation method.

### Record Keeping

The results of a site assessment must be submitted to Ecology and maintained by the owner for at least five years after completion of tank permanent closure. However, Ecology recommends records be maintained indefinitely by the owner. Proof of a "clean closure" is very important regarding any future property transfers or related business transactions, such as obtaining loans or insurance.

*Further questions or reporting a release? Please contact your regional office below.*

#### **Regional Office**

Central (509) 575-2490

Eastern (509) 329-3400

HQ (360) 407-7170

Northwest (425) 649-7000

Southwest (360) 407-6300

#### **Counties Served**

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman

Federal facilities in Western Washington

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

*or find a complete list of UST inspectors at:*

[www.ecy.wa.gov/programs/tcp/ust-lust/people.html](http://www.ecy.wa.gov/programs/tcp/ust-lust/people.html)

To find electronic versions of this letter and the enclosed forms, please visit:  
<http://www.ecy.wa.gov/programs/tcp/ust-lust/2011/03-out-of-svc.html>

*If you need this document in a format for the visually impaired, called the Toxics Cleanup Program at 360- 407-7071. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.*

Your copy of the 30-Day Notice, Intent to Close, has been stamped with the date it was received by the Department of Ecology (Ecology). You may begin work 30 days after that "received" date. Field inspectors with the UST program may visit the site during or after the 30-day waiting period; however, it is not always possible to visit every site.

The attached forms as well as a Site Assessment Report are required to be submitted to Ecology once the tanks have been decommissioned. It is the owner's/operator's responsibility to make sure that their service providers complete the documents and forward them to Ecology. They should be sent to:

Department of Ecology  
ATTN: Underground Storage Tank Unit  
PO Box 47600  
Olympia, WA 98504-7600

If you have any questions, please call Gail Jaskar at (360) 407-7225 or Sherri Greenup at (360) 407-7466.

Thank you.



# UNDERGROUND STORAGE TANK Site Check/Site Assessment Checklist

FOR OFFICE USE ONLY
Site #: _____
Facility Site ID #: _____

## INSTRUCTIONS

When a release has not been confirmed and reported, this Site Check/Site Assessment Checklist must be completed and signed by a person certified by ICC or a Washington registered professional engineer who is competent, by means of examination, experience, or education, to perform site assessments. **The results of the site check or site assessment must be included with this checklist.** This form must be submitted to Ecology at the address shown below within 30 days after completion of the site check/site assessment.

**SITE INFORMATION:** Include the Ecology site ID number if the tanks are registered with Ecology. This number may be found on the tank owner's invoice or tank permit.

**TANK INFORMATION:** Please list all tanks for which the site check or site assessment is being conducted. Use the owner's tank ID numbers if available, and indicate tank capacity and substance stored.

**REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT:** Please check the appropriate item.

**CHECKLIST:** Please initial each item in the appropriate box.

**SITE ASSESSOR INFORMATION:** This information must be signed by the registered site assessor who is responsible for conducting the site check/site assessment.

**Underground Storage Tank Section  
Department of Ecology  
PO Box 47655  
Olympia WA 98504-7655**

## SITE INFORMATION

Site ID Number (Available from Ecology if the tanks are registered): \_\_\_\_\_

Site/Business Name: \_\_\_\_\_

Site Address: \_\_\_\_\_ Telephone: ( ) \_\_\_\_\_

Street

City State Zip Code

## TANK INFORMATION

Tank ID No.	Tank Capacity	Substance Stored
_____	_____	_____
_____	_____	_____
_____	_____	_____

## REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT

Check one:

- Investigate suspected release due to on-site environmental contamination.
- Investigate suspected release due to off-site environmental contamination.
- Extend temporary closure of UST system for more than 12 months.
- UST system undergoing change-in-service.
- UST system permanently closed with tank removed.
- Abandoned tank containing product.
- Required by Ecology or delegated agency for UST system closed before 12/22/88.
- Other (describe): \_\_\_\_\_

## CHECKLIST

Each item of the following checklist shall be initialed by the person registered with the Department of Ecology whose signature appears below.

	YES	NO
1. The location of the UST site is shown on a vicinity map.		
2. A brief summary of information obtained during the site inspection is provided. (see Section 3.2 in site assessment guidance)		
3. A summary of UST system data is provided. (see Section 3.1.)		
4. The soils characteristics at the UST site are described. (see Section 5.2)		
5. Is there any apparent groundwater in the tank excavation?		
6. A brief description of the surrounding land use is provided. (see Section 3.1)		
7. Information has been provided indicating the number and types of samples collected, methods used to collect and analyze the samples, and the name and address of the laboratory used to perform the analyses.		
8. A sketch or sketches showing the following items is provided:		
- location and ID number for all field samples collected		
- groundwater samples distinguished from soil samples (if applicable)		
- samples collected from stockpiled excavated soil		
- tank and piping locations and limits of excavation pit		
- adjacent structures and streets		
- approximate locations of any on-site and nearby utilities		
9. If sampling procedures different from those specified in the guidance were used, has justification for using these alternative sampling procedures been provided? (see Section 3.4)		
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method and detection limit for that method.		
11. Any factors that may have compromised the quality of the data or validity of the results are described.		
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred.		

## SITE ASSESSOR INFORMATION

Person registered with Ecology \_\_\_\_\_ Firm Affiliated with \_\_\_\_\_

Business Address: \_\_\_\_\_ Telephone: (\_\_\_\_) \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

*I hereby certify that I have been in responsible charge of performing the site check/site assessment described above. Persons submitting false information are subject to penalties under Chapter 173.360 WAC.*

\_\_\_\_\_ Date \_\_\_\_\_ Signature of Person Registered with Ecology \_\_\_\_\_

If you need this publication in an alternate format, please contact Toxics Cleanup Program at (360) 407-7170. For persons with a speech or hearing impairment call 711 for relay service or 800-833-6388 for TTY.



DEPARTMENT OF  
**ECOLOGY**  
State of Washington

## PERMANENT CLOSURE NOTICE FOR UNDERGROUND STORAGE TANKS

UST ID #: \_\_\_\_\_

County: \_\_\_\_\_

*This notice certifies that permanent closure activities were performed and conducted in accordance with Chapter 173-360 WAC. Instructions are found on the back page.*

I. UST FACILITY			II. OWNER/OPERATOR INFORMATION			
Facility Compliance Tag #:	Owner/Operator Name:					
UST ID #:	Business Name:					
Site Name:	Address:					
Site Address:	City:	State:	Zip:			
City:	Phone:					
Phone:	Email:					
III. CERTIFIED UST DECOMMISSIONER						
Company Name:			Service Provider Name:			
Address:			Certification Type:			
City:	State:	Zip:	Cert. No.:	Exp. Date:		
Provider Phone:			Provider Email:			
<i>Provider Signature:</i>			<i>Date:</i>			
IV. TANK INFORMATION						
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	removal	closed-in-place	change-in-service	CLOSURE DATE
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
V. REQUIRED SIGNATURE						
<i>Signature acknowledges UST(s) comply with UST regulation WAC 173-360-380 Temporary Closure Requirements.</i>						
Date	Signature of Tank Owner/Operator or Authorized Representative			Print or Type Name		

# PERMANENT CLOSURE NOTICE

## FOR UNDERGROUND STORAGE TANKS

### INSTRUCTIONS

This form must be completed and submitted **within thirty days of completing** permanent closure activities to the following address:

Dept. of Ecology  
UST Section  
PO Box 47655  
Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number. If all tanks at the site are permanently closed, the facility compliance tag must be returned with this notice.
- III. UST Decommissioner:** It is the responsibility of the ICC-certified Decommissioner to follow proper tank closure procedures in accordance with WAC 173-360-375. The Decommissioner signature certifies these procedures were followed.
- IV. Tank Information:** Use the same Tank IDs that are listed on the facility's Business License. List the last substance stored in each tank, the tank sizes, the method by which the tank is being closed, and the date closure activities were conducted. All closure methods require a site assessment be conducted in accordance with Ecology's *Guidance for Site Checks and Site Assessments for Underground Storage Tanks*.
- V. Required Signature:** The owner and/or operator's signature is required. Also, the owner and/or operator is responsible for reporting confirmed releases to Ecology within 24 hours.

All confirmed releases must be reported to Ecology by the owner immediately and by service providers within 72 hours of the discovery of the condition. If the owner or operator is not immediately available, the report should be made directly to Ecology.

Be sure to contact your local fire marshal and other local jurisdictions. They may have other codes and regulations that apply to a permanent tank closure.

*Further questions? Please contact your regional office below and ask for a tank inspector to assist you.*

#### Regional Office

Central (509) 575-2490

Eastern (509) 329-3400

HQ (360) 407-7170

Northwest (425) 649-7000

Southwest (360) 407-6300

#### Counties Served

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman

Federal facilities in Western Washington

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

*or find a complete list of UST inspectors at:*

[www.ecy.wa.gov/programs/tcp/ust-lust/people.html](http://www.ecy.wa.gov/programs/tcp/ust-lust/people.html)

Sent March 5, 2015



DEPARTMENT OF ECOLOGY  
State of Washington

# UNDERGROUND STORAGE TANK (UST) 30-DAY NOTICE

(See back of form for instructions)

FOR OFFICE USE ONLY	
Site ID #	_____
FS ID #	24139

Please ✓ the appropriate box:  Intent to Install  Intent to Close

HQ (360)407-7170 / Central (509)575-2490 / Eastern (509)329-3400 / Northwest (425)649-7000 / Southwest (360)407-6300

RECEIVED

**SITE INFORMATION** MAR 11 2015 **OWNER INFORMATION** (this form will be returned to this address)

Tag or UBI number: N/A Department of Ecology Toxics Cleanup Program

Site Name: Gilman Square UST Owner/Operator: LML Gilman Square, LLC

Site Physical Address: 615 NW Gilman Blvd Mailing Address/PO Box: 1325 Fourth Ave, Suite 1700

City: Issaquah, WA Zip Code: 98027 City: Seattle, WA Zip Code: 98101

Owner/Operator Phone Number: Kurt Reiswig / (206) 465-4565

Owner/Operator Email Address: kurt.reiswig@lennar.com

### TANK INFORMATION

Tank ID	Substance Stored	Capacity	Date Project is Expected to Begin	Comments:
<u>N/A</u>	<u>Petroleum</u>	<u>10,000</u>	<u>April 21, 2015</u>	<u>Tanks purportedly closed in place in 1980's. No documents found.</u>
<u>↓</u>	<u>↓</u>	<u>3,000</u>	<u>↓</u>	
<u>↓</u>	<u>↓</u>	<u>4,000</u>	<u>↓</u>	
<u>↓</u>	<u>↓</u>	<u>3,000</u>	<u>↓</u>	

### 1) SERVICE PROVIDER INFORMATION - check the appropriate boxes

PLEASE NOTE: INDIVIDUALS PERFORMING UST SERVICES MUST BE ICC CERTIFIED OR HAVE PASSED ANOTHER QUALIFYING EXAM APPROVED BY THE DEPARTMENT OF ECOLOGY.

Installer  Decommissioner  Site Assessor

Service Provider Company Name: G-logics Contact Person: Stuart Hyde

Certified Service Provider Name: Stuart Hyde Contact Phone Number: (804) 837-5205

ICC Certification #: 8178334 Contact Email Address: stuarth@g-logics.com

### 2) SERVICE PROVIDER INFORMATION (REQUIRED IF USING MORE THAN ONE PROVIDER) - check the appropriate boxes

Installer  Decommissioner  Site Assessor

Service Provider Company Name: Clearcreek Contractors Contact Person: Rob Liden

Certified Service Provider Name: Nathan Hoffman Contact Phone Number: (206) 423-6516

ICC Certification #: ICC00219270 Contact Email Address: rob1@clearcreek.com

# Instructions

Please Read Carefully

AFTER COMPLETING THIS FORM, RETURN TO:

DEPARTMENT OF ECOLOGY  
TOXICS CLEANUP PROGRAM  
P.O. BOX 47655  
OLYMPIA, WA 98504-7655

## GENERAL

Under WAC 173-360-200 and 173-360-385, owners and operators are required to notify Ecology 30 days prior to beginning underground storage tank (UST) installation or decommissioning projects. Please use a separate form for each activity. Once this form is received and processed by Ecology, it is date stamped and returned to the owner listed on the form. Installation and decommissioning projects may begin 30 days after the date stamped on the form. If a project cannot meet the deadlines described below, you must submit an additional 30-Day Notice. The 30-day wait period may be waived on these additional 30-Day Notices by contacting the inspector in your region.

## SITE AND OWNER INFORMATION

Fill in the site and owner information and be sure to provide telephone numbers and email addresses so that any problems can be resolved quickly. Include the facility compliance tag or UBI number for tank closures.

## TANK INFORMATION

List tanks to be installed or closed, substance stored (e.g. gas, diesel, etc), tank size and date the project is expected to begin. **The contact person listed on this form must confirm the exact date an installation and/or decommissioning project will begin at least three business days before proceeding.** Please report tank ID number(s) for tanks to be closed and assign new Tank ID number(s) to tanks being installed. If you are installing new tanks, do not assign a Tank ID number that has previously been used at the facility. Use the Comments box to include additional information, such as when product was removed so that no more than one inch of residue remains in the system.

## TANK INSTALLATIONS

List the installation company. The date stamped on the form indicates the beginning of a 90-day period in which an installation project must begin. Once, processed, this form also allows you to receive a one-time drop of product, for UST system testing purposes only. The fuel drop is not required to occur within this 90-day period.

To dispense product and receive additional deliveries, you must complete the Business License registration and obtain your facility compliance tag from Ecology. The registration information must be submitted to the Department of Revenue within 30 days of installation to receive a Business License with the appropriate tank endorsement(s). **If, at any time, your tank(s) store greater than one inch of product, you must begin using an acceptable release detection method to monitor for leaks every month.**

## PERMANENT TANK CLOSURES

List the closure and site assessor companies. Upon receiving a completed 30-day closure form, Ecology will stamp the date received on the form and return a copy to the owner. Decommissioning projects must be completed 90 days after the stamped date. **No work may begin within the first 30 days unless a waiver has been obtained from Ecology.**

Contact your local fire marshal and planning department prior to tank closure to find out if any additional permits are required by county or other local jurisdictions. Compliance with the State Environmental Policy Act (SEPA) Rules, Chapter 197-11 WAC, may be required.

A site assessment is required at the time of closure. Contamination found or suspected at the site must be reported to the appropriate Ecology regional office within 24 hours. If the contamination is confirmed, a site characterization report must be submitted to the regional office within 90 days; if contamination is not confirmed, a site assessment report must be submitted to the above address within 30 days.

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The following are examples of tanks that are exempt from notification requirements.

- ❖ Farm or residential tanks, 1,100 gallons or less, used to store motor fuel for personal or farm use only. The fuel must be used for farm purposes and cannot be for resale.
- ❖ Tanks used for storing heating oil that is used solely for the purpose of heating the premises.
- ❖ Tanks with a capacity of 110 gallons or less.
- ❖ Equipment or machinery tanks such as hydraulic lifts or electrical equipment tanks.
- ❖ Emergency overflow tanks, catch basins, or sumps.

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If you need this document in a format for the visually impaired, call Toxics Cleanup Program at (360) 407-7170. Persons with hearing loss can call 711 for Washington Relay Service. Persons with speech disability, call (877) 833-6341.

# BUILDING PERMIT



CITY OF  
**ISSAQUAH**  
WASHINGTON  
Development Services  
1775 12th Ave NW  
Issaquah, WA 98027

Permit Number:  
**BLD15-00157**

SubType: COM - ALT

**Project Name:** ATLAS (SEVENTH AT GILMAN) 5 UST TANK  
REMOVALS

**Site Address:** 1118 7TH AVE NW

**Parcel Number:** 2824069284

**Applied:** 04/15/2015

**Issued:** 04/29/2015

**Expires:** 04/28/2017

**Valuation:** \$20,000

## Owner

GILMAN SQUARE LLC  
500 108TH AVE NE #2400  
BELLEVUE, WA 98004

## Contractor

ANDERSEN CONSTRUCTION  
6712 N CUTTER CIRCLE  
PORTLAND, OR 97217

License: ANDERC\*907DN Phone: (503) 283-6712

**Description of Work:** Tank Decommission (5 USTs tanks) by Marine Vacuum Services

## Code Edition:

Zoning: MU  
Lot Area:

## Building Information

Stories: 0  
Floor Area: 0

## Residential Units

No. of New D/U's: 0  
No. of Removed D/U's: 0

## Occupancy

Type Group Load

**Post this permit in a visible and accessible location at the job site and have the approved plans available.**

## Inspection Scheduling

To schedule or cancel an inspection, go to [MyBuildingPermit.com](http://MyBuildingPermit.com).  
For cancellations on day of, please call 425-837-3100. Re-inspection fee may be assessed if inspector has been dispatched.

**Inspection request cut off:** 6:00 AM (Backflow is 3:30 day before)  
You may optionally request AM or PM in the "Message to Inspector" box.  
Homeowners may request a two-hour window between 8am and 3:30pm.  
Requests are not guaranteed.



MBP Inspection Request

## Permit Expiration

There is limited ability to extend the expiration date. Please call 425-837-3100 if you have questions about permit expiration.

Hiring an unlicensed contractor is prohibited and carries potential risk and monetary liability to the property owner. Visit [HiringaContractor.Lni.wa.gov](http://HiringaContractor.Lni.wa.gov) or call 1-800-647-0982 to learn more.

## Occupancy

**Single Family & Duplexes:** The final sign-off on the inspection card is your Certificate of Occupancy.

**New Non-Residential and Change of Use:** Certificate of Occupancy is required. Bring fully signed off permit card to the Permit Center for your certificate.

# INSPECTION RECORD

Permit Number: BLD15-00157  
 Site Address: 1118 7TH AVE NW

Note Date Inspector

Note Date Inspector

## BUILDING

FOOTING/PIER/SOIL			
FOUNDATION WALL			
FIRE STOPPING			
WALLBOARD NAILING			
FRAMING			
SUSPENDED CEILING			
INSULATION/ENERGY			

## PLUMBING

PLM ROUGH-IN			
WTR QUALITY ROUGH-IN			
PLM GROUNDWORK			
PLM HYDRONICS			
PLM ROOF/FOOT DRAIN			
PLM WATERLINE			
PLM FINAL			

## MECHANICAL

MECH ROUGH-IN			
MECH RTU CONNECTION			
MECH GAS PIPING			
MECH FIRE/SMOKE DAMP			
MECH DUCT LIGHT TEST			
MECH FINAL			

## FINAL

C OF O			
**FINAL INSPECTION			

All inspections are required by law. Do not proceed until previous inspections are signed. This card and approved plans must be posted at the job site at all times.

## Inspector's Notes:

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	TCO			C OF O	
	INSP	DATE	EXPIRES	INSP	DATE
<b>FIRE DEPT</b> (425) 313-3322 OR (425) 313-3324					
<b>WATER QUAL</b> (425) 837-3470					
<b>BUILDING</b>					

THIS COMPLETED AND SIGNED CARD IS A CERTIFICATE OF OCCUPANCY FOR SINGLE FAMILY AND DUPLEXES ONLY



NW Locust Street

7<sup>th</sup> Ave NW

BOT. ELEV. = 63.0

TOP = 69.00

BOT. ELEV. = 61.0

TESC 4M  
SEE NOTE 5

TESC 1  
SEE NOTE

Former Gas Station

PROPERTY BOUNDARY (TYP.)

2 14721F

**Notes:**

Five USTs associated with a former gas and service station are suspected at the Site. The approximate location of two USTs was identified during a ground-penetrating radar (GPR) survey. The location of the remaining three USTs is unknown. In addition, the tank contents are unknown. From the historical tax records, it is believed that the tanks are of the following size:

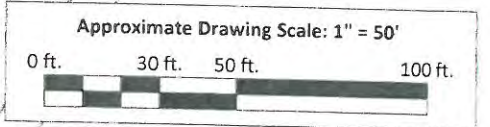
- 1 10,000-gallon tank
- 1 4,000-gallon tank
- 2 3,000-gallon tanks
- 1 250-gallon tank

Possible Area of Remaining USTs

Known USTs

**SITE COPY**

this drawing is to be kept on the Building Site at all times



Important Note: This figure contains information in color. Black & white photocopies may not be suitable for review.



Site Diagram, UST Removal  
 Gilman Square  
 615 Northwest Gilman Blvd  
 Issaquah, Washington

RECEIVED  
 APR 02 2015  
 City of Issaquah

Figure  
 1

Project File: 01-0868-J-Ftank.vsd



Conditions Associated With

Case #: BLD15-00157

04/28/2015

Title	Date	By
<b>#SPECIAL CONDITION</b> (4/17/2015 9:15 AM DP) Contractor must follow all DOE Requirements for UGT removal and disposal.	04/17/2015	DP
<b>BLD TANK REMOVAL-COMM</b> 1. A State Certified site assessor to be on location during tank removal. 2. Assessor to submit a report on conditions found at the site, referencing DOE guidelines for clean-up and shall provide a summary of results and a copy of any and all reports sent to DOE. 3. Owner shall submit a letter of certification for DOE if the site was found to be contaminated and subsequently cleaned up. 4. Please call for fire department inspection 24 hours prior to tank removal at 425-313-3310. LEL must be 0% or one pound dry ice per 50 gallons tank capacity must be inserted into tank to insure the tank atmosphere is inert prior to use of heavy equipment. Fire inspection at time of tank removal required.	04/17/2015	TR
<b>FIRE - INSPECTION</b> Inspection(s) required by Eastside Fire and Rescue. Please request inspection at <a href="http://www.eastsidefire-rescue.org">www.eastsidefire-rescue.org</a> . Please allow 48 hour turnaround time for the request.	04/27/2015	ML

Handout <b>113</b>	<b>Construction Requirements</b>	<p>CITY OF ISSAQUAH WASHINGTON Development Services Department 1775 - 12<sup>th</sup> Ave. NW   P.O. Box 1307 Issaquah, WA 98027 425-837-3100   <a href="mailto:DSD@issaquahwa.gov">DSD@issaquahwa.gov</a></p>
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**Project Representative Available**

The General Contractor shall have a project representative available to City Inspectors at all times. This person shall be authorized to make decisions necessary to conduct day-to-day construction activities.

**Construction Hours: M-F 7:00 AM to 6:00 PM except holidays.**

Any work performed outside of the times noted above shall be allowed only by written request to, and approval by the Building Official. Requests for "Weekend/Holiday Work Permits" must be turned in to the City no later than THURSDAY, 12:00 noon, prior to the weekend requesting work. Late requests will not be considered. SATURDAY work hours are 9:00 AM to 5:00 PM. **NO SUNDAY WORK ALLOWED.**

Note - Weekend work permits are free of charge.

**Revisions to Plans**

Any revisions to the plans must be submitted to the Development Services Department **ON FULL-SIZE SHEETS**. Changes must be clouded and any new sheets must be added to the sheet index. Please fill out a City of Issaquah green revision form and submit the form with the changes. Please allow reasonable timing for approval of changes. **Engineering will not be reviewed or approved out in the field.**

**Plans and Permit on Site**

City approved permit and drawings shall be available to the City inspector at all times during a requested inspection. Plans shall be located in a dry environment. Please do not place plans in porta-cans.

**Mechanical**

Projects with roof top air handling units must call for City inspection of connections both from curb-to-roof as well as unit-to-curb.

**Inspection Requests**

Please request all inspections on [www.MyBuildingPermit.com](http://www.MyBuildingPermit.com) and click on "Inspections". Requests for inspections must be received by the Permit Center no later than 6:00 am.

- Homeowners may request a two-hour window to schedule an inspection. Enter desired time frame in "Message to Inspector" box. Requested times are not guaranteed.
- We are unable to accommodate any calls requesting time of inspections. Check the "Today's Inspections" page for estimated arrival times.
- Please request concrete inspections one day prior to pouring.
- All inspections shall be ready for inspection by 8 a.m. the morning of the inspection.
- Call for all applicable inspections listed on the back of the permit form.
- Please call (425) 837-3100 if you need to cancel a scheduled inspection. Cancellations may not be accepted if left on a recording. You may be assessed a re-inspection fee if inspection has not been canceled and inspector arrives at the site.

**Roof and Exterior Wall**

Request roof and exterior wall nailing inspection prior to covering. Failure to call for inspection prior to covering will result in areas of roof and/or wall covering being removed for inspection. For roof inspections **please provide a ladder and a safety line at time of inspection.**

*These requirements are intended to address the most common issues on remodel/ti projects. For information on other issues, please contact a building inspector directly with questions regarding procedure.*



## SITE CHECK/SITE ASSESSMENT CHECKLIST FOR UNDERGROUND STORAGE TANKS

UST ID #: \_\_\_\_\_

County: \_\_\_\_\_

*This checklist certifies that site check or site assessment activities were performed in accordance with Chapter 173-360 WAC. Instructions are found on the last page.*

I. UST FACILITY		II. OWNER/OPERATOR INFORMATION	
Facility Compliance Tag #: <i>N/A</i>		Owner/Operator Name: <i>LMC Gilman Square LLC</i>	
UST ID #: <i>N/A</i>		Business Name: <i>—</i>	
Site Name: <i>Gilman Square</i>		Address: <i>1325 Fourth Ave, Suite 1700</i>	
Site Address: <i>615 NW Gilman Blvd</i>		City: <i>Seattle</i> State: <i>WA</i> Zip: <i>98101</i>	
City: <i>Issaquah</i>		Phone: <i>Kurt Reiswig, 206-465-4565</i>	
Phone: <i>—</i>		Email: <i>kurt.reiswig@lennar.com</i>	
III. CERTIFIED SITE ASSESSOR			
Service Provider Name: <i>StuartHyde</i>		Company Name: <i>GeoLogics</i>	
Cell Phone: <i>804 837-5305</i> Email: <i>stuarth@geo-logics</i>		Address: <i>40 2nd Ave SE</i>	
Certification #: <i>8178334</i> Exp. Date: <i>10/8/15</i>		City: <i>Issaquah</i> State: <i>WA</i> Zip: <i>98027</i>	
IV. TANK INFORMATION			
TANK ID	TANK CAPACITY	LAST SUBSTANCE STORED	DATE SITE CHECK OR ASSESSMENT CONDUCTED
<i>Tank 1</i>	<i>10,000 gal</i>	<i>Gas</i>	<i>5/6 - 5/8/15</i>
<i>Tank 2</i>	<i>4,000 gal</i>	<i>Gas</i>	<i>"</i>
<i>Tank 3</i>	<i>3,000 gal</i>	<i>Gas</i>	<i>"</i>
<i>Tank 4</i>	<i>3,000 gal</i>	<i>Gas</i>	<i>"</i>
<i>Tank 5</i>	<i>250 gal</i>	<i>Waste Oil</i>	<i>7/31/15</i>
V. REASON FOR CONDUCTING SITE CHECK/SITE ASSESSMENT (check one)			
<input checked="" type="checkbox"/> Release investigation following permanent UST system closure (i.e. tank removal or closure-in-place).			
<input type="checkbox"/> Release investigation following a failed tank and/or line tightness test.			
<input type="checkbox"/> Release investigation following discovery of contaminated soil and/or groundwater.			
<input type="checkbox"/> Release investigation directed by Ecology to determine if the UST system is the source of offsite impacts.			
<input type="checkbox"/> UST system is undergoing a "change-in-service", which is changing from storing a regulated substance (e.g. gasoline) to storing a non-regulated substance (e.g. water).			
<input type="checkbox"/> Directed by Ecology for UST system permanently closed or abandoned before 12/22/1988.			
<input type="checkbox"/> Other (describe):			

## VI. CHECKLIST

**The site assessor must check each of the following items and include it in the report.  
Sections referenced below can be found in the Ecology publication  
*Guidance for Site Checks and Site Assessments for Underground Storage Tanks.***

		YES	NO
1. The location of the UST site is shown on a vicinity map.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. A brief summary of information obtained during the site inspection is provided (Section 3.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. A summary of UST system data is provided (Section 3.1) <span style="margin-left: 20px;"><i>Unknown</i></span>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. The soils characteristics at the UST site are described. (Section 5.2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is there any apparent groundwater in the tank excavation? <span style="margin-left: 20px;"><i>Tank 1-4 excavation only</i></span>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. A brief description of the surrounding land use is provided. (Section 3.1)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. The name and address of the laboratory used to perform analyses is provided. The methods used to collect and analyze the samples, including the number and types of samples collected, are also documented in the report. The data from the laboratory is appended to the report.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. The following items are provided in one or more sketches:			
• Location and ID number for all field samples collected	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
• If applicable, groundwater samples are distinguished from soil samples	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
• Location of samples collected from stockpiled excavated soil <span style="margin-left: 20px;"><i>Stockpiled soils disposed offsite</i></span>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
• Tank and piping locations and limits of excavation pit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
• Adjacent structures and streets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
• Approximate locations of any on-site and nearby utilities	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. If sampling procedures are different from those specified in the guidance, has justification for using these alternative sampling procedures been provided? (Section 3.4)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. A table is provided showing laboratory results for each sample collected including; sample ID number, constituents analyzed for and corresponding concentration, analytical method, and detection limit for that method. Any sample exceeding MTCA Method A cleanup standards are highlighted or bolded.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Any factors that may have compromised the quality of the data or validity of the results are described.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. The results of this site check/site assessment indicate that a confirmed release of a regulated substance has occurred. The requirements for reporting confirmed releases can be found in WAC 173-360-372.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## VII. REQUIRED SIGNATURES

*Signature acknowledges the Site Check or Site Assessment complies with UST regulations WAC 173-360-360 through -395.*

*Stuart Hyde*

*SH*

*8/12/15*

Print or Type Name

Signature of Certified Site Assessor

Date

# SITE CHECK/SITE ASSESSMENT CHECKLIST

## FOR UNDERGROUND STORAGE TANKS

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### INSTRUCTIONS

This checklist must accompany the results of a Site Check Report, which is performed if a release of petroleum or other regulated substance is suspected. It is also required to accompany a Site Assessment Report, which is required following the permanent closure or “change-in-service” of an underground storage tank system. This form is required to be filled out whether or not contamination is found. This checklist is to be completed by the Site Assessor and submitted **within thirty days of completing** these activities to the following address:

Dept. of Ecology  
UST Section  
PO Box 47655  
Olympia, WA 98504-7655

- I./II. UST Facility and Owner/Operator Information:** Fill out these sections completely. If you do not know your UST ID number, include the facility compliance tag number.
- III. Service Provider Information:** It is the responsibility of the ICC-certified Site Assessor to ensure that sampling and documentation procedures are completed in accordance with Ecology’s *Guidance for Site Checks and Site Assessment for Underground Storage Tanks*.
- IV. Tank Information:** Use the same Tank identification numbers listed on the facility’s Business License which is based on the most recent UST Addendum on file with Ecology. List the last substance stored in each tank, the tank sizes and the date the site check or site assessment was completed.
- V. Required Signature:** The Site Assessor signature certifies these procedures were followed.

All confirmed releases must be reported to Ecology by the owner within 24 hours and by service providers within 72 hours of discovery. A Site Characterization Report must be submitted to Ecology within 90 days after confirming a release.

*Further questions? Please contact your regional office below and ask for a tank inspector to assist you.*

#### **Regional Office**

Central (509) 575-2490

Eastern (509) 329-3400

HQ (360) 407-7170

Northwest (425) 649-7000

Southwest (360) 407-6300

#### **Counties Served**

Benton, Chelan, Douglas, Kittitas, Klickitat, Okanogan, Yakima

Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Spokane, Stevens, Walla Walla, Whitman

Federal facilities in Western Washington

Island, King, Kitsap, San Juan, Skagit, Snohomish, Whatcom

Clallam, Clark, Cowlitz, Grays Harbor, Jefferson, Lewis, Mason, Pacific, Pierce, Skamania, Thurston, Wahkiakum

***or find a complete list of UST inspectors at:***

[www.ecy.wa.gov/programs/tcp/ust-lust/people.html](http://www.ecy.wa.gov/programs/tcp/ust-lust/people.html)

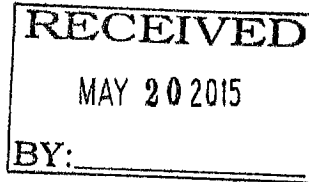
To request materials in a format for the visually impaired call Ecology at 360-407-7170, Relay Service 711, or TTY 877-833-6341

REGIONAL DISPOSAL COMPANY INTERMODA  
 PO BOX 51057  
 LOS ANGELES, CA 90074-1057  
 (206) 332-7731

# INVOICE

TO:

Santa Incorporated  
 22821 NE Redmond Fall City Road  
 Redmond, WA 98053



INVOICE NO. 0000048669  
 PAGE 1  
 DATE May-15-15  
 CUSTOMER NO. 16447 TB-12289  
 SITE NO.  
 REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		Balance forward :			\$62,792.86
		Payments :			\$62,792.86
		Adjustments :			\$0.00
		Invoices :			\$0.00
07 - May	VH	Vehicle: SOIL SW-CONT SOIL W/FUEL	01-922990	13.59 TN	\$611.55
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	01-922992	19.15 TN	\$861.75
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	01-923006	17.44 TN	\$784.80
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	01-923007	16.65 TN	\$749.25
07 - May	VH	Vehicle: 120 SANTA SW-CONT SOIL W/FUEL	01-923009	16.72 TN	\$752.40
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	01-923018	16.46 TN	\$740.70
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	01-923019	14.42 TN	\$648.90

## Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice. Payments received after invoice date are not reflected. To ensure proper credit, please include your account number on your check and include the bottom portion of this invoice. When making payment on multiple accounts, please include the account numbers and the amounts of payment.

CURRENT      31 - 60 DAYS      61 - 90 DAYS      OVER 90 DAYS

**TOTAL THIS INVOICE**

**PLEASE PAY THIS AMOUNT**

We reserve the right to suspend service without notice on any past due account.

Please remit to:

INVOICE NO.  
 PAGE  
 DATE  
 CUSTOMER NO.  
 SITE NO.  
 REFERENCE NO.

**AMOUNT OF REMITTANCE**

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS

REGIONAL DISPOSAL COMPANY INTERMODA  
 PO BOX 51057  
 LOS ANGELES, CA 90074-1057  
 (206) 332-7731

# INVOICE

TO:

Santa Incorporated  
 22821 NE Redmond Fall City Road  
 Redmond, WA 98053

INVOICE NO. 0000048669  
 PAGE 2  
 DATE May-15-15  
 CUSTOMER NO. TB-12289  
 SITE NO.  
 REFERENCE NO.

SERVICE DATE	CCIF	DESCRIPTION	REFERENCE	QTY.	AMOUNT
07 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923024	13.93 TN	\$626.85
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923030	18.81 TN	\$846.45
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923031	14.40 TN	\$648.00
07 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923035	14.84 TN	\$667.80
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923040	17.37 TN	\$781.65
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923041	13.54 TN	\$609.30
07 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923048	14.35 TN	\$645.75
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923053	13.97 TN	\$628.65
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923054	13.41 TN	\$603.45

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.  
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REGIONAL DISPOSAL COMPANY INTERMODA  
 PO BOX 51057  
 LOS ANGELES, CA 90074-1057  
 (206) 332-7731

# INVOICE

TO:

Santa Incorporated  
 22821 NE Redmond Fall City Road  
 Redmond, WA 98053

INVOICE NO. 0000048669  
 PAGE 3  
 DATE May-15-15  
 CUSTOMER NO. TB-12289  
 SITE NO.  
 REFERENCE NO.

SERVICE DATE	LCMR	DESCRIPTION	REFERENCE	QTY.	AMOUNT
07 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923062	13.65 TN	\$614.25
07 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923065	14.84 TN	\$667.80
07 - May	VH	Vehicle: 136 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923069	13.14 TN	\$591.30
08 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923081	15.03 TN	\$676.35
08 - May	VH	Vehicle: 114 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923083	18.32 TN	\$824.40
08 - May	VH	Vehicle: 106 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923085	14.74 TN	\$663.30
08 - May	VH	Vehicle: 140 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923086	13.04 TN	\$586.80
08 - May	VH	Vehicle: 138 SANTA SW-CONT SOIL W/FUEL	\$45.00 01-923093	15.95 TN	\$717.75
		Vehicle: 114 SANTA			

## Account Status

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 Redmond, WA 98053

INVOICE NO. 0000048669  
 PAGE 4  
 DATE May-15-15  
 CUSTOMER NO. TB-12289  
 SITE NO.  
 REFERENCE NO.

SERVICE DATE	CC	DESCRIPTION	REFERENCE	QTY.	AMOUNT
08 - May	VH	SW-CONT SOIL W/FUEL	01-923096	17.56 TN	\$790.20
		Vehicle: 106 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923100	19.84 TN	\$892.80
		Vehicle: 140 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923101	16.08 TN	\$723.60
		Vehicle: 138 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923109	14.45 TN	\$650.25
		Vehicle: 114 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923110	17.68 TN	\$795.60
		Vehicle: 106 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923112	16.73 TN	\$752.85
		Vehicle: 140 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923113	16.48 TN	\$741.60
		Vehicle: 138 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923117	15.32 TN	\$689.40
		Vehicle: 140 SANTA			
08 - May	VH	SW-CONT SOIL W/FUEL	01-923119	16.17 TN	\$727.65

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.  
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## Account Status

CURRENT

31 - 60 DAYS

61 - 90 DAYS

OVER 90 DAYS

TOTAL THIS INVOICE

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Please remit to:

INVOICE NO.  
 PAGE  
 DATE  
 CUSTOMER NO.  
 SITE NO.  
 REFERENCE NO.

AMOUNT OF REMITTANCE

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REMARKS

REGIONAL DISPOSAL COMPANY INTERMODA  
 PO BOX 51057  
 LOS ANGELES, CA 90074-1057  
 (206) 332-7731

# INVOICE

TO:

Santa Incorporated  
 22821 NE Redmond Fall City Road  
 Redmond, WA 98053

INVOICE NO. 0000048669  
 PAGE 5  
 DATE May-15-15  
 CUSTOMER NO. 16447  
 SITE NO. TB-12289  
 REFERENCE NO.

SERVICE DATE	CODE	DESCRIPTION	REFERENCE	QTY.	AMOUNT
		<u>Material Summary</u>			
	VH	SW-CONT SOIL W/FUEL		518.07 TN	

### Account Status

Payment due upon receipt of this invoice. 1.5% per month (18% per annum) late charge on balances over 30 days from date of invoice.  
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CURRENT	31 - 60 DAYS	61 - 90 DAYS	OVER 90 DAYS
\$ 23,313.15	\$ 0.00	\$ 0.00	\$ 0.00

**TOTAL THIS INVOICE** \$23,313.15

**PLEASE PAY THIS AMOUNT** \$23,313.15

We reserve the right to suspend service without notice on any past due account.

**Please remit to:**

INVOICE NO. 0000048669 REGIONAL DISPOSAL COMPANY INTERMODA  
 PAGE 5 PO BOX 51057  
 DATE May-15-15 LOS ANGELES, CA 90074-1057  
 CUSTOMER NO. 16447 (206) 332-7731  
 SITE NO.  
 REFERENCE NO.

AMOUNT OF REMITTANCE

PLEASE RETURN THIS PORTION WITH REMITTANCE

REMARKS  
 \*\*\* Please reference your invoice number on each check stub \*\*\*  
 For Billing Inquiries: Call (206)332-7731 or email: chartje@republicservices.com



Contractor's Lic. # SANTA1\*933CA  
 22821 NE Redmond Fall City Rd.  
 Redmond, WA 98053  
 (425) 641-4242

Date:	8-10-15				no	17314
Truck No.	136				Truck Charges	
Truck Type	Solo	<input checked="" type="checkbox"/> Trailer	Flat	Other	Driver Charges	
Truck Rate					Sub Total	
Truck Hours	1				Add Charge	
Driver Hours	1				Total Charges	

Customer: Santa Billing Address:

Job Location: 7th of Gilman Job Number: 1501

Start: 200 Stop: 300 Lunch: Downtime: Reason

Material	From	To	No Loads	Hours
<u>contaminated</u>	<u>7th of Gilman</u>	<u>Seattle transfer station</u>		
		<u>(LABANCO)</u>	<u>927150</u>	

Fuel: Oil: Total Miles: Total Miles Off-Highway

\*Remarks:  
 Drivers Signature: Stan Author. Co. Rep. Signature: Paul Andy

PLEASE NOTE: ADDITIONAL TERMS AND CONDITIONS:

THE TERMS AND CONDITIONS STATED ON THE REVERSE OF THIS INVOICE ARE A PART OF CARRIER'S AGREEMENT TO PROVIDE SERVICE. YOUR SIGNATURE ON THE FACE OF THIS INVOICE SIGNIFIES YOUR KNOWLEDGE, AND ACCEPTANCE, OF THE TERMS ON THE REVERSE.

SITE REGIONAL DISPOSAL INTERMODAL  
 3rd and lander  
 Seattle, WA --

CUSTOMER  
 016447  
 Santa Incorporated  
 22821 NE Redmond Fall City Road  
 Redmond, WA 98053  
 TB-12289

SITE	TICKET #	CELL
01	927150	
WEIGHMASTER		
IN - JAMIE B. OUT - Raylene W.		
DATE/TIME IN	DATE/TIME OUT	
08-10-2015 2:44 pm	08-10-2015 2:52 pm	
VEHICLE	SANTA	CONTAINER
REFERENCE	INVOICE	
BILL OF LADING		

SCALE IN GROSS WEIGHT 118,640 NET TONS 37.89  
 SCALE OUT TARE WEIGHT 42,860 NET WEIGHT 75,780 INBOUND

QTY.	UNIT	DESCRIPTION	RATE	EXTENSION	TAX	TOTAL
0.00	YD	TRACKING QTY				
37.89	TN	SW-CONT SOIL W/FUEL ISSAQUAH/KING				

NET AMOUNT
TENDERED
CHANGE
CHECK#

The undersigned individual signing this document on behalf of Customer acknowledges that he or she has read and understands the terms and conditions on the reverse side and that he or she has the authority to sign this document on behalf of the customer.

# APPENDIX K



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

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[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1504235**

May 01, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 4 sample(s) on 4/27/2015 for the analyses presented in the following report.

***Hydrocarbon Identification by NWTPH-HCID***

***Sample Moisture (Percent Moisture)***

***Total Metals by EPA Method 6020***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 05/01/2015

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**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1504235

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1504235-001	TANK TP-1-5'	04/27/2015 10:30 AM	04/27/2015 1:00 PM
1504235-002	TANK TP-1-6'	04/27/2015 10:35 AM	04/27/2015 1:00 PM
1504235-003	TANK 4-0B-2'	04/27/2015 10:45 AM	04/27/2015 1:00 PM
1504235-004	TANK 1-WATER	04/27/2015 11:00 AM	04/27/2015 1:00 PM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned



## Case Narrative

WO#: 1504235

Date: 5/1/2015

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**CLIENT:** G-Logics  
**Project:** Gilman Square

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### I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

### II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

### III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1504235

Date Reported: 5/1/2015

**CLIENT:** G-Logics  
**Project:** Gilman Square

**Lab ID:** 1504235-001

**Collection Date:** 4/27/2015 10:30:00 AM

**Client Sample ID:** TANK TP-1-5'

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Hydrocarbon Identification by NWTPH-HCID**

Batch ID: 10635 Analyst: DB

Gasoline	ND	26.2		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Mineral Spirits	ND	39.3		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Kerosene	ND	65.5		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Diesel (Fuel Oil)	ND	65.5		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Heavy Oil	ND	131		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Mineral Oil	ND	131		mg/Kg-dry	1	4/27/2015 7:44:00 PM
Surr: 2-Fluorobiphenyl	94.4	50-150		%REC	1	4/27/2015 7:44:00 PM
Surr: o-Terphenyl	95.3	50-150		%REC	1	4/27/2015 7:44:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22018 Analyst: CG

Percent Moisture	30.2			wt%	1	4/27/2015 3:22:13 PM
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# Analytical Report

WO#: 1504235

Date Reported: 5/1/2015

**CLIENT:** G-Logics  
**Project:** Gilman Square

**Lab ID:** 1504235-002

**Collection Date:** 4/27/2015 10:35:00 AM

**Client Sample ID:** TANK TP-1-6'

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Hydrocarbon Identification by NWTPH-HCID**

Batch ID: 10635

Analyst: DB

Gasoline	ND	21.1		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Mineral Spirits	ND	31.7		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Kerosene	ND	52.8		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Diesel (Fuel Oil)	ND	52.8		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Heavy Oil	ND	106		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Mineral Oil	ND	106		mg/Kg-dry	1	4/27/2015 8:15:00 PM
Surr: 2-Fluorobiphenyl	103	50-150		%REC	1	4/27/2015 8:15:00 PM
Surr: o-Terphenyl	104	50-150		%REC	1	4/27/2015 8:15:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10668

Analyst: AK

Methyl tert-butyl ether (MTBE)	ND	0.0479		mg/Kg-dry	1	4/30/2015 3:48:00 PM
Surr: Dibromofluoromethane	102	63.7-129		%REC	1	4/30/2015 3:48:00 PM
Surr: Toluene-d8	99.2	64.3-131		%REC	1	4/30/2015 3:48:00 PM
Surr: 1-Bromo-4-fluorobenzene	108	63.1-141		%REC	1	4/30/2015 3:48:00 PM

**Total Metals by EPA Method 6020**

Batch ID: 10666

Analyst: TN

Lead	2.80	0.170		mg/Kg-dry	1	4/30/2015 4:47:13 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R22018

Analyst: CG

Percent Moisture	13.4			wt%	1	4/27/2015 3:22:13 PM
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# Analytical Report

WO#: 1504235

Date Reported: 5/1/2015

**CLIENT:** G-Logics  
**Project:** Gilman Square

**Lab ID:** 1504235-003

**Collection Date:** 4/27/2015 10:45:00 AM

**Client Sample ID:** TANK 4-0B-2'

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Hydrocarbon Identification by NWTPH-HCID**

Batch ID: 10635 Analyst: DB

Gasoline	ND	21.7		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Mineral Spirits	ND	32.5		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Kerosene	ND	54.2		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Diesel (Fuel Oil)	ND	54.2		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Heavy Oil	ND	108		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Mineral Oil	ND	108		mg/Kg-dry	1	4/27/2015 8:47:00 PM
Surr: 2-Fluorobiphenyl	109	50-150		%REC	1	4/27/2015 8:47:00 PM
Surr: o-Terphenyl	109	50-150		%REC	1	4/27/2015 8:47:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22018 Analyst: CG

Percent Moisture	10.5			wt%	1	4/27/2015 3:22:13 PM
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**Lab ID:** 1504235-004

**Collection Date:** 4/27/2015 11:00:00 AM

**Client Sample ID:** TANK 1-WATER

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Hydrocarbon Identification by NWTPH-HCID**

Batch ID: 10628 Analyst: AK

Gasoline	ND	399		µg/L	1	4/28/2015 12:54:00 PM
Mineral Spirits	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Kerosene	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Diesel (Fuel Oil)	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Diesel Range Organics (C12-C24)	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Heavy Oil	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Mineral Oil	ND	499		µg/L	1	4/28/2015 12:54:00 PM
Surr: 2-Fluorobiphenyl	68.6	50-150		%REC	1	4/28/2015 12:54:00 PM
Surr: o-Terphenyl	74.2	50-150		%REC	1	4/28/2015 12:54:00 PM



**Work Order:** 1504235  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID <b>MB-10666</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22100</b>					
Client ID: <b>MBLKS</b>	Batch ID: <b>10666</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419531</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID <b>LCS-10666</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22100</b>					
Client ID: <b>LCSS</b>	Batch ID: <b>10666</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419532</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 127 0.200 138.0 0 91.7 73.2 127.5

Sample ID <b>1504256-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22100</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>10666</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419534</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 7.15 0.148 8.264 14.4 20

Sample ID <b>1504256-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22100</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>10666</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419536</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 23.7 0.148 18.52 8.264 83.4 75 125

Sample ID <b>1504256-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22100</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>10666</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419537</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 25.1 0.148 18.52 8.264 90.8 75 125 23.72 5.58 20



**Work Order:** 1504235  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Hydrocarbon Identification by NWTPH-HCID**

Sample ID <b>LCS-10635</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/27/2015</b>	RunNo: <b>22019</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>10635</b>					Analysis Date: <b>4/27/2015</b>	SeqNo: <b>418215</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	542	50.0	500.0	0	108	65	135				
Surr: 2-Fluorobiphenyl	21.5		20.00		108	50	150				
Surr: o-Terphenyl	26.7		20.00		133	50	150				

Sample ID <b>MB-10635</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/27/2015</b>	RunNo: <b>22019</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>10635</b>					Analysis Date: <b>4/27/2015</b>	SeqNo: <b>418216</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	20.0									
Mineral Spirits	ND	30.0									
Kerosene	ND	50.0									
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Mineral Oil	ND	100									
Surr: 2-Fluorobiphenyl	21.4		20.00		107	50	150				
Surr: o-Terphenyl	21.4		20.00		107	50	150				



**Work Order:** 1504235  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Hydrocarbon Identification by NWTPH-HCID**

Sample ID <b>LCS-10628</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>4/27/2015</b>	RunNo: <b>22041</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>10628</b>					Analysis Date: <b>4/28/2015</b>	SeqNo: <b>418481</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	838	501	1,001	0	83.7	65	135				
Surr: 2-Fluorobiphenyl	67.6		80.09		84.4	50	150				
Surr: o-Terphenyl	64.0		80.09		79.9	50	150				

Sample ID <b>MB-10628</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>4/27/2015</b>	RunNo: <b>22041</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>10628</b>					Analysis Date: <b>4/28/2015</b>	SeqNo: <b>418482</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	398									
Mineral Spirits	ND	498									
Kerosene	ND	498									
Diesel (Fuel Oil)	ND	498									
Heavy Oil	ND	498									
Mineral Oil	ND	498									
Surr: 2-Fluorobiphenyl	48.9		79.63		61.4	50	150				
Surr: o-Terphenyl	51.1		79.63		64.2	50	150				



**Work Order:** 1504235  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>LCS-10668</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>10668</b>					Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419279</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	1.05	0.0500	1.000	0	105	59.1	138				
Surr: Dibromofluoromethane	1.22		1.250		97.2	63.7	129				
Surr: Toluene-d8	1.26		1.250		101	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.28		1.250		103	63.1	141				

Sample ID <b>LCSD-10668</b>	SampType: <b>LCSD</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>				
Client ID: <b>LCSS02</b>	Batch ID: <b>10668</b>					Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419280</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	1.10	0.0500	1.000	0	110	59.1	138	1.047	5.30	20	
Surr: Dibromofluoromethane	1.28		1.250		102	63.7	129		0	0	
Surr: Toluene-d8	1.31		1.250		105	64.3	131		0	0	
Surr: 1-Bromo-4-fluorobenzene	1.27		1.250		101	63.1	141		0	0	

Sample ID <b>MB-10668</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>10668</b>					Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419281</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0500									
Surr: Dibromofluoromethane	1.29		1.250		104	63.7	129				
Surr: Toluene-d8	1.23		1.250		98.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		100	63.1	141				

Sample ID <b>1504235-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>				
Client ID: <b>TANK TP-1-6'</b>	Batch ID: <b>10668</b>					Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419508</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	1.05	0.0479	0.9589	0	109	54.4	132				
Surr: Dibromofluoromethane	1.18		1.199		98.6	63.7	129				
Surr: Toluene-d8	1.16		1.199		96.5	64.3	131				



**Work Order:** 1504235  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1504235-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>					
Client ID: <b>TANK TP-1-6'</b>	Batch ID: <b>10668</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419508</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Surr: 1-Bromo-4-fluorobenzene	1.22		1.199		102	63.1	141				
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Sample ID <b>1504263-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>			Prep Date: <b>4/30/2015</b>	RunNo: <b>22091</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>10668</b>				Analysis Date: <b>4/30/2015</b>	SeqNo: <b>419815</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Methyl tert-butyl ether (MTBE)	ND	0.0481						0		30	
Surr: Dibromofluoromethane	1.21		1.201		100	63.7	129		0		
Surr: Toluene-d8	1.22		1.201		101	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.21		1.201		100	63.1	141		0		



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1504235</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>4/27/2015 1:00:00 PM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody seals intact on shipping container/cooler? Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all coolers received at a temperature of >0°C to 10.0°C Yes  No  NA
- Samples received straight from field.**
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is the headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	11.3	
Sample	16.0	



# Fremont Analytical

## Chain of Custody Record

3600 Fremont Ave N, Seattle, WA 98103  
 Tel: 206-352-3790  
 Fax: 206-352-7178

Date: 4/27/15

Laboratory Project No (Internal): 150042255  
 Page: 1 of 1

Client: G-Logics  
 Address: 4000 Ave SE  
 Issaquah  
 City, State, Zip

Tel: 425-391-6874  
 Fax:

Project Name: Gilman Street  
 Location: Issaquah  
 Collected by: SH

Reports To (PM): SH  
 Email: Stuart@g-logics.com  
 Project No: 01-0868-J

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrx)*	Analytes														Comments/Depth	
				VOC (EPA 8260)	GMX/TEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HID)	Diethylhexyl Chloride (DEH)	SEM (EPA 8270 - SEM)	PAH (EPA 8270)	PCBs (EPA 8062)	Metals** (6020/8062)	Total (T)   Dissolved (D)	Ames (C)***	EOB (8061)			
1 TANK TP-1-5'	4/27	1030	S	X			X												40' in, 2 WGS
2 TANK TP-1-6'		1035	S	X			X												↓
3 TANK 4-08-2'		1045	S	X			X												12 Amber, 3 WGS
4 TANK 1-WATER		1100	W	X															
5																			
6																			
7																			
8																			
9																			
10																			

\*\*Metals Analysis (Circle): Ni/Cr-5 R/Cd-8 P/Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Tl Ti U V Zn

\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Fluoride Nitrate+Nitrite

Sample Disposal:  Return to Client  Disposal by Lab (A for may be analyzed, samples are retained after 30 days)

Reinforced: 4/27/15 1300 Date/Time  
 Date/Time: 4/27/15 1510  
 Date/Time: 4/27/15 1510

Special Remarks: Please run analysis if detected

TAT -> 2 Day 3 Day STD

\*Please contact us in advance



# Fremont

## Chain of Custody Record

3600 Fremont Ave N  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 4/27/15

Laboratory Project No (Project#): 150042295

Client: G-Logics  
Address: 402nd Ave SE  
City, State, ZIP: Issaquah

Tel: 425-391-8874

Project Name:  
Location:  
Collected by:

Gilman Square  
Issaquah  
SH

Reports To (P#): SH

Fax:

Email: StructureLogics Project No: 01-0868-5

\*Matrix Codes: A = Air, AD = Aquifer, B = Bulk, D = Other, P = Product, S = Soil, SO = Sediment, SL = Solid, W = Water, BW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)	Analytes											Comments/Depth						
				VOC (EPA 8260)	GAH (EPA 8260)	PEX	Gasoline Range Organics (GRO)	Hydrocarbon Organics (HCO)	Distillate Organics (DO)	PAH (EPA 8270)	PCB (EPA 8062)	Metals** (6010/200.8)	Total (T)   Dissolved (D)	Arsenic (As)**		Fluoride (F)					
1 TANK TP-1-5'	4/27	1030	S				X													4 oz jar, 3 vials	
2 TANK TP-1-6'		1035	S				X													3 vials	
3 TANK 4-08-3'		1045	S				X													11 Amber, 3 vials	
4 TANK 1-WATER		1100	W				X														
5																					
6																					
7																					
8																					
9																					
10																					

Matrix Analysis (Circle): METALS, PCBs, PRIORITY POLLUTANTS, TALS, INDIAN/INDIAN AG, AL, AS, B, BA, BE, CA, CD, CO, CU, FE, Hg, Hb, Hh, Hk, Hl, Hm, Hn, HO, Hs, Ht, HU, V, Zn

Analysis (Circle): Nitrate, Nitrite, Chloride, Sulfate, Bromide, Cyanide, Fluoride, Nitrate-Nitrite

Sample Disposal:  Return to Client  Disposal by Lab (For use in accordance with applicable regulations and/or state laws)

Signature: SH Date/Time: 4/27/15 1300 Date/Time: 4/27/15 1510



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1505012**

May 05, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 7 sample(s) on 5/1/2015 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***

***Gasoline by NWTPH-Gx***

***Sample Moisture (Percent Moisture)***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 05/05/2015

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1505012

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505012-001	CDF-SP-1	05/01/2015 2:00 PM	05/01/2015 5:45 PM
1505012-002	CDF-SP-2	05/01/2015 2:35 PM	05/01/2015 5:45 PM
1505012-003	CDF-SP-3	05/01/2015 2:40 PM	05/01/2015 5:45 PM
1505012-004	CDF-SP-4	05/01/2015 2:45 PM	05/01/2015 5:45 PM
1505012-005	CDF-SP-5	05/01/2015 2:50 PM	05/01/2015 5:45 PM
1505012-006	WSW-1-10'	05/01/2015 3:05 PM	05/01/2015 5:45 PM
1505012-007	B-1-11'	05/01/2015 3:12 PM	05/01/2015 5:45 PM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics

**Collection Date:** 5/1/2015 2:00:00 PM

**Project:** Gilman Square

**Lab ID:** 1505012-001

**Matrix:** Soil

**Client Sample ID:** CDF-SP-1

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10684      Analyst: BC

Gasoline	ND	5.30		mg/Kg-dry	1	5/4/2015 3:28:00 PM
Surr: 4-Bromofluorobenzene	116	65-135		%REC	1	5/4/2015 3:28:00 PM
Surr: Toluene-d8	110	65-135		%REC	1	5/4/2015 3:28:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684      Analyst: BC

Benzene	ND	0.0212		mg/Kg-dry	1	5/4/2015 3:28:00 PM
Toluene	ND	0.0212		mg/Kg-dry	1	5/4/2015 3:28:00 PM
Ethylbenzene	ND	0.0318		mg/Kg-dry	1	5/4/2015 3:28:00 PM
m,p-Xylene	0.0458	0.0212		mg/Kg-dry	1	5/4/2015 3:28:00 PM
o-Xylene	0.0216	0.0212		mg/Kg-dry	1	5/4/2015 3:28:00 PM
Surr: Dibromofluoromethane	95.8	63.7-129		%REC	1	5/4/2015 3:28:00 PM
Surr: Toluene-d8	107	64.3-131		%REC	1	5/4/2015 3:28:00 PM
Surr: 1-Bromo-4-fluorobenzene	112	63.1-141		%REC	1	5/4/2015 3:28:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126      Analyst: CG

Percent Moisture	14.2			wt%	1	5/4/2015 9:41:12 AM
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# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics

**Collection Date:** 5/1/2015 2:35:00 PM

**Project:** Gilman Square

**Lab ID:** 1505012-002

**Matrix:** Soil

**Client Sample ID:** CDF-SP-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10684      Analyst: BC

Gasoline	18.9	6.27		mg/Kg-dry	1	5/4/2015 3:57:00 PM
Surr: 4-Bromofluorobenzene	115	65-135		%REC	1	5/4/2015 3:57:00 PM
Surr: Toluene-d8	110	65-135		%REC	1	5/4/2015 3:57:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684      Analyst: BC

Benzene	0.0462	0.0251		mg/Kg-dry	1	5/4/2015 3:57:00 PM
Toluene	0.363	0.0251		mg/Kg-dry	1	5/4/2015 3:57:00 PM
Ethylbenzene	0.0811	0.0376		mg/Kg-dry	1	5/4/2015 3:57:00 PM
m,p-Xylene	0.780	0.0251		mg/Kg-dry	1	5/4/2015 3:57:00 PM
o-Xylene	0.311	0.0251		mg/Kg-dry	1	5/4/2015 3:57:00 PM
Surr: Dibromofluoromethane	96.1	63.7-129		%REC	1	5/4/2015 3:57:00 PM
Surr: Toluene-d8	107	64.3-131		%REC	1	5/4/2015 3:57:00 PM
Surr: 1-Bromo-4-fluorobenzene	111	63.1-141		%REC	1	5/4/2015 3:57:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126      Analyst: CG

Percent Moisture	13.8			wt%	1	5/4/2015 9:41:12 AM
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# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics

**Collection Date:** 5/1/2015 2:40:00 PM

**Project:** Gilman Square

**Lab ID:** 1505012-003

**Matrix:** Soil

**Client Sample ID:** CDF-SP-3

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10684 Analyst: BC

Gasoline	ND	9.14		mg/Kg-dry	1	5/4/2015 4:27:00 PM
Surr: 4-Bromofluorobenzene	115	65-135		%REC	1	5/4/2015 4:27:00 PM
Surr: Toluene-d8	110	65-135		%REC	1	5/4/2015 4:27:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684 Analyst: BC

Benzene	ND	0.0366		mg/Kg-dry	1	5/4/2015 4:27:00 PM
Toluene	0.0370	0.0366		mg/Kg-dry	1	5/4/2015 4:27:00 PM
Ethylbenzene	ND	0.0549		mg/Kg-dry	1	5/4/2015 4:27:00 PM
m,p-Xylene	0.0642	0.0366		mg/Kg-dry	1	5/4/2015 4:27:00 PM
o-Xylene	ND	0.0366		mg/Kg-dry	1	5/4/2015 4:27:00 PM
Surr: Dibromofluoromethane	93.8	63.7-129		%REC	1	5/4/2015 4:27:00 PM
Surr: Toluene-d8	106	64.3-131		%REC	1	5/4/2015 4:27:00 PM
Surr: 1-Bromo-4-fluorobenzene	110	63.1-141		%REC	1	5/4/2015 4:27:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126 Analyst: CG

Percent Moisture	14.5			wt%	1	5/4/2015 9:41:12 AM
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# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics

**Collection Date:** 5/1/2015 2:45:00 PM

**Project:** Gilman Square

**Lab ID:** 1505012-004

**Matrix:** Soil

**Client Sample ID:** CDF-SP-4

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 10682      Analyst: EM

Diesel (Fuel Oil)	ND	19.9		mg/Kg-dry	1	5/4/2015 1:13:00 PM
Heavy Oil	ND	49.7		mg/Kg-dry	1	5/4/2015 1:13:00 PM
Surr: 2-Fluorobiphenyl	111	50-150		%REC	1	5/4/2015 1:13:00 PM
Surr: o-Terphenyl	108	50-150		%REC	1	5/4/2015 1:13:00 PM

**Gasoline by NWTPH-Gx**

Batch ID: 10684      Analyst: BC

Gasoline	36.3	4.54		mg/Kg-dry	1	5/4/2015 4:56:00 PM
Surr: 4-Bromofluorobenzene	116	65-135		%REC	1	5/4/2015 4:56:00 PM
Surr: Toluene-d8	110	65-135		%REC	1	5/4/2015 4:56:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684      Analyst: BC

Benzene	ND	0.0182		mg/Kg-dry	1	5/4/2015 4:56:00 PM
Toluene	0.597	0.0182		mg/Kg-dry	1	5/4/2015 4:56:00 PM
Ethylbenzene	0.471	0.0272		mg/Kg-dry	1	5/4/2015 4:56:00 PM
m,p-Xylene	2.41	0.0182		mg/Kg-dry	1	5/4/2015 4:56:00 PM
o-Xylene	1.02	0.0182		mg/Kg-dry	1	5/4/2015 4:56:00 PM
Surr: Dibromofluoromethane	94.1	63.7-129		%REC	1	5/4/2015 4:56:00 PM
Surr: Toluene-d8	107	64.3-131		%REC	1	5/4/2015 4:56:00 PM
Surr: 1-Bromo-4-fluorobenzene	112	63.1-141		%REC	1	5/4/2015 4:56:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126      Analyst: CG

Percent Moisture	12.3			wt%	1	5/4/2015 9:41:12 AM
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# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1505012-005  
**Client Sample ID:** CDF-SP-5

**Collection Date:** 5/1/2015 2:50:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.</u></b>					Batch ID: 10682	Analyst: EM
Diesel (Fuel Oil)	ND	22.0		mg/Kg-dry	1	5/4/2015 1:44:00 PM
Heavy Oil	ND	54.9		mg/Kg-dry	1	5/4/2015 1:44:00 PM
Surr: 2-Fluorobiphenyl	110	50-150		%REC	1	5/4/2015 1:44:00 PM
Surr: o-Terphenyl	108	50-150		%REC	1	5/4/2015 1:44:00 PM
<b><u>Gasoline by NWTPH-Gx</u></b>					Batch ID: 10684	Analyst: BC
Gasoline	371	5.68	E	mg/Kg-dry	1	5/4/2015 5:26:00 PM
Surr: 4-Bromofluorobenzene	121	65-135		%REC	1	5/4/2015 5:26:00 PM
Surr: Toluene-d8	116	65-135		%REC	1	5/4/2015 5:26:00 PM
<b><u>Volatile Organic Compounds by EPA Method 8260</u></b>					Batch ID: 10684	Analyst: BC
Benzene	0.0278	0.0227		mg/Kg-dry	1	5/4/2015 5:26:00 PM
Toluene	0.0524	0.0227		mg/Kg-dry	1	5/4/2015 5:26:00 PM
Ethylbenzene	ND	0.0341		mg/Kg-dry	1	5/4/2015 5:26:00 PM
m,p-Xylene	0.507	0.0227		mg/Kg-dry	1	5/4/2015 5:26:00 PM
o-Xylene	0.194	0.0227		mg/Kg-dry	1	5/4/2015 5:26:00 PM
Surr: Dibromofluoromethane	95.5	63.7-129		%REC	1	5/4/2015 5:26:00 PM
Surr: Toluene-d8	117	64.3-131		%REC	1	5/4/2015 5:26:00 PM
Surr: 1-Bromo-4-fluorobenzene	115	63.1-141		%REC	1	5/4/2015 5:26:00 PM
<b><u>Sample Moisture (Percent Moisture)</u></b>					Batch ID: R22126	Analyst: CG
Percent Moisture	16.6			wt%	1	5/4/2015 9:41:12 AM



# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics

**Collection Date:** 5/1/2015 3:05:00 PM

**Project:** Gilman Square

**Lab ID:** 1505012-006

**Matrix:** Soil

**Client Sample ID:** WSW-1-10'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10684 Analyst: BC

Gasoline	ND	4.98		mg/Kg-dry	1	5/4/2015 5:55:00 PM
Surr: 4-Bromofluorobenzene	116	65-135		%REC	1	5/4/2015 5:55:00 PM
Surr: Toluene-d8	109	65-135		%REC	1	5/4/2015 5:55:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684 Analyst: BC

Benzene	ND	0.0199		mg/Kg-dry	1	5/4/2015 5:55:00 PM
Toluene	ND	0.0199		mg/Kg-dry	1	5/4/2015 5:55:00 PM
Ethylbenzene	ND	0.0299		mg/Kg-dry	1	5/4/2015 5:55:00 PM
m,p-Xylene	ND	0.0199		mg/Kg-dry	1	5/4/2015 5:55:00 PM
o-Xylene	ND	0.0199		mg/Kg-dry	1	5/4/2015 5:55:00 PM
Surr: Dibromofluoromethane	96.4	63.7-129		%REC	1	5/4/2015 5:55:00 PM
Surr: Toluene-d8	109	64.3-131		%REC	1	5/4/2015 5:55:00 PM
Surr: 1-Bromo-4-fluorobenzene	112	63.1-141		%REC	1	5/4/2015 5:55:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126 Analyst: CG

Percent Moisture	11.8			wt%	1	5/4/2015 9:41:12 AM
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# Analytical Report

WO#: 1505012  
Date Reported: 5/5/2015

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1505012-007  
**Client Sample ID:** B-1-11'

**Collection Date:** 5/1/2015 3:12:00 PM  
**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10684 Analyst: BC

Gasoline	20.5	4.27		mg/Kg-dry	1	5/4/2015 6:24:00 PM
Surr: 4-Bromofluorobenzene	116	65-135		%REC	1	5/4/2015 6:24:00 PM
Surr: Toluene-d8	107	65-135		%REC	1	5/4/2015 6:24:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10684 Analyst: BC

Benzene	ND	0.0171		mg/Kg-dry	1	5/4/2015 6:24:00 PM
Toluene	ND	0.0171		mg/Kg-dry	1	5/4/2015 6:24:00 PM
Ethylbenzene	ND	0.0256		mg/Kg-dry	1	5/4/2015 6:24:00 PM
m,p-Xylene	0.0514	0.0171		mg/Kg-dry	1	5/4/2015 6:24:00 PM
o-Xylene	ND	0.0171		mg/Kg-dry	1	5/4/2015 6:24:00 PM
Surr: Dibromofluoromethane	94.9	63.7-129		%REC	1	5/4/2015 6:24:00 PM
Surr: Toluene-d8	108	64.3-131		%REC	1	5/4/2015 6:24:00 PM
Surr: 1-Bromo-4-fluorobenzene	112	63.1-141		%REC	1	5/4/2015 6:24:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22126 Analyst: CG

Percent Moisture	17.3			wt%	1	5/4/2015 9:41:12 AM
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Work Order: 1505012  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID	<b>LCS-10682</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22155</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>10682</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420614</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	473	20.0	500.0	0	94.5	65	135				
Surr: 2-Fluorobiphenyl	21.3		20.00		106	50	150				
Surr: o-Terphenyl	19.7		20.00		98.3	50	150				

Sample ID	<b>LCSD-10682</b>	SampType:	<b>LCSD</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22155</b>		
Client ID:	<b>LCSS02</b>	Batch ID:	<b>10682</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420615</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	471	20.0	500.0	0	94.3	65	135	472.5	0.254	30	
Surr: 2-Fluorobiphenyl	20.8		20.00		104	50	150		0		
Surr: o-Terphenyl	19.8		20.00		98.9	50	150		0		

Sample ID	<b>MB-10682</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22155</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>10682</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420616</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	20.5		20.00		103	50	150				
Surr: o-Terphenyl	19.9		20.00		99.6	50	150				

**Work Order:** 1505012  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID <b>LCS-10684</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/4/2015</b>	RunNo: <b>22153</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>10684</b>					Analysis Date: <b>5/4/2015</b>	SeqNo: <b>420577</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	24.9	5.00	25.00	0	99.5	65	135				
Surr: Toluene-d8	1.39		1.250		111	65	135				
Surr: 4-Bromofluorobenzene	1.46		1.250		117	65	135				

Sample ID <b>MB-10684</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/4/2015</b>	RunNo: <b>22153</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>10684</b>					Analysis Date: <b>5/4/2015</b>	SeqNo: <b>420578</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	1.38		1.250		110	65	135				
Surr: 4-Bromofluorobenzene	1.41		1.250		113	65	135				

Sample ID <b>1505012-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>5/4/2015</b>	RunNo: <b>22153</b>				
Client ID: <b>CDF-SP-1</b>	Batch ID: <b>10684</b>					Analysis Date: <b>5/4/2015</b>	SeqNo: <b>420718</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.30						0		30	
Surr: Toluene-d8	1.48		1.326		112	65	135		0		
Surr: 4-Bromofluorobenzene	1.53		1.326		116	65	135		0		



**Work Order:** 1505012  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>LCS-10684</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22152</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>10684</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420568</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.863	0.0200	1.000	0	86.3	64.3	133				
Toluene	0.881	0.0200	1.000	0	88.1	67.3	138				
Ethylbenzene	0.906	0.0300	1.000	0	90.6	74	129				
m,p-Xylene	1.80	0.0200	2.000	0	89.9	79.8	128				
o-Xylene	0.915	0.0200	1.000	0	91.5	72.7	124				
Surr: Dibromofluoromethane	1.32		1.250		105	63.7	129				
Surr: Toluene-d8	1.30		1.250		104	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.40		1.250		112	63.1	141				

Sample ID	<b>MB-10684</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22152</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>10684</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420569</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.17		1.250		94.0	63.7	129				
Surr: Toluene-d8	1.30		1.250		104	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.36		1.250		109	63.1	141				

Sample ID	<b>1505012-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>5/4/2015</b>	RunNo:	<b>22152</b>		
Client ID:	<b>CDF-SP-1</b>	Batch ID:	<b>10684</b>			Analysis Date:	<b>5/4/2015</b>	SeqNo:	<b>420704</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0212						0		30	
Toluene	ND	0.0212						0		30	
Ethylbenzene	ND	0.0318						0		30	
m,p-Xylene	0.0479	0.0212						0.04584	4.40	30	



**Work Order:** 1505012  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1505012-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/4/2015</b>	RunNo: <b>22152</b>							
Client ID: <b>CDF-SP-1</b>	Batch ID: <b>10684</b>	Analysis Date: <b>5/4/2015</b>	SeqNo: <b>420704</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

o-Xylene	0.0230	0.0212						0.02157	6.45	30	
Surr: Dibromofluoromethane	1.26		1.326		94.7	63.7	129		0		
Surr: Toluene-d8	1.46		1.326		110	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.48		1.326		112	63.1	141		0		

Sample ID <b>1505012-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>5/4/2015</b>	RunNo: <b>22152</b>							
Client ID: <b>CDF-SP-2</b>	Batch ID: <b>10684</b>	Analysis Date: <b>5/4/2015</b>	SeqNo: <b>420705</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	1.27	0.0251	1.253	0.04618	97.3	63.5	133				
Toluene	1.59	0.0251	1.253	0.3631	98.1	63.4	132				
Ethylbenzene	1.31	0.0376	1.253	0.08106	98.3	54.5	134				
m,p-Xylene	3.16	0.0251	2.507	0.7802	95.0	53.1	132				
o-Xylene	1.52	0.0251	1.253	0.3108	96.5	53.3	139				
Surr: Dibromofluoromethane	1.70		1.567		108	63.7	129				
Surr: Toluene-d8	1.70		1.567		108	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.76		1.567		112	63.1	141				

Client Name: **GL**

 Work Order Number: **1505012**

 Logged by: **Clare Griggs**

 Date Received: **5/1/2015 5:45:00 PM**

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody seals intact on shipping container/cooler? Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all coolers received at a temperature of >0°C to 10.0°C Yes  No  NA
- Samples received straight from field.**
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is the headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	19.2	
Sample	14.4	





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F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1505063**

May 12, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 3 sample(s) on 5/8/2015 for the analyses presented in the following report.

***Gasoline by NWTPH-Gx***

***Sample Moisture (Percent Moisture)***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway  
President



Date: 05/12/2015

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**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1505063

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1505063-001	NSW-4-9'	05/08/2015 8:55 AM	05/08/2015 10:09 AM
1505063-002	ESW-3-9'	05/08/2015 9:15 AM	05/08/2015 10:09 AM
1505063-003	Dup-X	05/08/2015 9:00 AM	05/08/2015 10:09 AM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

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**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1505063  
Date Reported: 5/12/2015

**Client:** G-Logics

**Collection Date:** 5/8/2015 8:55:00 AM

**Project:** Gilman Square

**Lab ID:** 1505063-001

**Matrix:** Soil

**Client Sample ID:** NSW-4-9'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10733      Analyst: EM

Gasoline	ND	7.13		mg/Kg-dry	1	5/8/2015 1:51:00 PM
Surr: 4-Bromofluorobenzene	98.3	65-135		%REC	1	5/8/2015 1:51:00 PM
Surr: Toluene-d8	94.7	65-135		%REC	1	5/8/2015 1:51:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10733      Analyst: EM

Benzene	ND	0.0285		mg/Kg-dry	1	5/8/2015 1:51:00 PM
Toluene	ND	0.0285		mg/Kg-dry	1	5/8/2015 1:51:00 PM
Ethylbenzene	ND	0.0428		mg/Kg-dry	1	5/8/2015 1:51:00 PM
m,p-Xylene	ND	0.0285		mg/Kg-dry	1	5/8/2015 1:51:00 PM
o-Xylene	ND	0.0285		mg/Kg-dry	1	5/8/2015 1:51:00 PM
Surr: Dibromofluoromethane	99.5	63.7-129		%REC	1	5/8/2015 1:51:00 PM
Surr: Toluene-d8	103	64.3-131		%REC	1	5/8/2015 1:51:00 PM
Surr: 1-Bromo-4-fluorobenzene	105	63.1-141		%REC	1	5/8/2015 1:51:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22247      Analyst: CG

Percent Moisture	21.0			wt%	1	5/8/2015 1:46:54 PM
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# Analytical Report

WO#: 1505063  
Date Reported: 5/12/2015

**Client:** G-Logics

**Collection Date:** 5/8/2015 9:15:00 AM

**Project:** Gilman Square

**Lab ID:** 1505063-002

**Matrix:** Soil

**Client Sample ID:** ESW-3-9'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10733      Analyst: EM

Gasoline	ND	5.75		mg/Kg-dry	1	5/8/2015 2:20:00 PM
Surr: 4-Bromofluorobenzene	97.4	65-135		%REC	1	5/8/2015 2:20:00 PM
Surr: Toluene-d8	93.0	65-135		%REC	1	5/8/2015 2:20:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10733      Analyst: EM

Benzene	ND	0.0230		mg/Kg-dry	1	5/8/2015 2:20:00 PM
Toluene	ND	0.0230		mg/Kg-dry	1	5/8/2015 2:20:00 PM
Ethylbenzene	ND	0.0345		mg/Kg-dry	1	5/8/2015 2:20:00 PM
m,p-Xylene	ND	0.0230		mg/Kg-dry	1	5/8/2015 2:20:00 PM
o-Xylene	ND	0.0230		mg/Kg-dry	1	5/8/2015 2:20:00 PM
Surr: Dibromofluoromethane	96.6	63.7-129		%REC	1	5/8/2015 2:20:00 PM
Surr: Toluene-d8	99.0	64.3-131		%REC	1	5/8/2015 2:20:00 PM
Surr: 1-Bromo-4-fluorobenzene	105	63.1-141		%REC	1	5/8/2015 2:20:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22247      Analyst: CG

Percent Moisture	18.4			wt%	1	5/8/2015 1:46:54 PM
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# Analytical Report

WO#: 1505063  
Date Reported: 5/12/2015

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1505063-003  
**Client Sample ID:** Dup-X

**Collection Date:** 5/8/2015 9:00:00 AM

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Gasoline by NWTPH-Gx**

Batch ID: 10733      Analyst: EM

Gasoline	ND	7.11		mg/Kg-dry	1	5/8/2015 4:40:00 PM
Surr: 4-Bromofluorobenzene	97.6	65-135		%REC	1	5/8/2015 4:40:00 PM
Surr: Toluene-d8	93.0	65-135		%REC	1	5/8/2015 4:40:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 10733      Analyst: EM

Benzene	ND	0.0284		mg/Kg-dry	1	5/8/2015 4:40:00 PM
Toluene	ND	0.0284		mg/Kg-dry	1	5/8/2015 4:40:00 PM
Ethylbenzene	ND	0.0426		mg/Kg-dry	1	5/8/2015 4:40:00 PM
m,p-Xylene	ND	0.0284		mg/Kg-dry	1	5/8/2015 4:40:00 PM
o-Xylene	ND	0.0284		mg/Kg-dry	1	5/8/2015 4:40:00 PM
Surr: Dibromofluoromethane	94.8	63.7-129		%REC	1	5/8/2015 4:40:00 PM
Surr: Toluene-d8	94.5	64.3-131		%REC	1	5/8/2015 4:40:00 PM
Surr: 1-Bromo-4-fluorobenzene	105	63.1-141		%REC	1	5/8/2015 4:40:00 PM

**Sample Moisture (Percent Moisture)**

Batch ID: R22247      Analyst: CG

Percent Moisture	20.2			wt%	1	5/8/2015 1:46:54 PM
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Work Order: 1505063  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID	<b>1505063-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22256</b>		
Client ID:	<b>NSW-4-9'</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422318</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	7.13						0		30	
Surr: Toluene-d8	1.67		1.782		93.6	65	135		0		
Surr: 4-Bromofluorobenzene	1.70		1.782		95.3	65	135		0		

Sample ID	<b>LCS-10733</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22256</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422321</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	26.2	5.00	25.00	0	105	65	135				
Surr: Toluene-d8	1.16		1.250		92.9	65	135				
Surr: 4-Bromofluorobenzene	1.19		1.250		95.4	65	135				

Sample ID	<b>MB-10733</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22256</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422322</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	1.14		1.250		91.0	65	135				
Surr: 4-Bromofluorobenzene	1.17		1.250		93.4	65	135				



**Work Order:** 1505063  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>1505063-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22254</b>		
Client ID:	<b>NSW-4-9'</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422311</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0285						0		30	
Toluene	ND	0.0285						0		30	
Ethylbenzene	ND	0.0428						0		30	
m,p-Xylene	ND	0.0285						0		30	
o-Xylene	ND	0.0285						0		30	
Surr: Dibromofluoromethane	1.63		1.782		91.3	63.7	129		0		
Surr: Toluene-d8	1.72		1.782		96.4	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.83		1.782		103	63.1	141		0		

Sample ID	<b>1505063-002BMS</b>	SampType:	<b>MS</b>	Units:	<b>mg/Kg-dry</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22254</b>		
Client ID:	<b>ESW-3-9'</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422313</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	1.18	0.0230	1.150	0	103	63.5	133				
Toluene	1.18	0.0230	1.150	0	102	63.4	132				
Ethylbenzene	1.26	0.0345	1.150	0	109	54.5	134				
m,p-Xylene	2.56	0.0230	2.300	0	111	53.1	132				
o-Xylene	1.22	0.0230	1.150	0	106	53.3	139				
Surr: Dibromofluoromethane	1.33		1.438		92.4	63.7	129				
Surr: Toluene-d8	1.39		1.438		96.9	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.44		1.438		99.8	63.1	141				

Sample ID	<b>LCS-10733</b>	SampType:	<b>LCS</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22254</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422315</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.996	0.0200	1.000	0	99.6	64.3	133				
Toluene	0.996	0.0200	1.000	0	99.6	67.3	138				
Ethylbenzene	1.08	0.0300	1.000	0	108	74	129				
m,p-Xylene	2.25	0.0200	2.000	0	113	79.8	128				



**Work Order:** 1505063  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>LCS-10733</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/8/2015</b>	RunNo: <b>22254</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>10733</b>					Analysis Date: <b>5/8/2015</b>	SeqNo: <b>422315</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	1.10	0.0200	1.000	0	110	72.7	124				
Surr: Dibromofluoromethane	1.17		1.250		93.3	63.7	129				
Surr: Toluene-d8	1.23		1.250		98.1	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.32		1.250		105	63.1	141				

Sample ID <b>MB-10733</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/8/2015</b>	RunNo: <b>22254</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>10733</b>					Analysis Date: <b>5/8/2015</b>	SeqNo: <b>422316</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0200									
Toluene	ND	0.0200									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Surr: Dibromofluoromethane	1.23		1.250		98.0	63.7	129				
Surr: Toluene-d8	1.22		1.250		97.4	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.26		1.250		101	63.1	141				

Sample ID <b>1505059-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg</b>				Prep Date: <b>5/8/2015</b>	RunNo: <b>22254</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>10733</b>					Analysis Date: <b>5/8/2015</b>	SeqNo: <b>422491</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.0475						0		30	
Toluene	ND	0.0475						0		30	
Ethylbenzene	ND	0.0713						0		30	
m,p-Xylene	ND	0.0475						0		30	
o-Xylene	ND	0.0475						0		30	
Surr: Dibromofluoromethane	2.81		2.971		94.7	63.7	129		0		
Surr: Toluene-d8	2.95		2.971		99.3	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	10.3		14.85		69.1	63.1	141		0		



Date: 5/12/2015

**Work Order:** 1505063  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>1505059-001BDUP</b>	SampType:	<b>DUP</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>5/8/2015</b>	RunNo:	<b>22254</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>10733</b>			Analysis Date:	<b>5/8/2015</b>	SeqNo:	<b>422491</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1505063</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>5/8/2015 10:09:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody seals intact on shipping container/cooler? Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all coolers received at a temperature of >0°C to 10.0°C? Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is the headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C	Condition
Cooler	8.3	Good
Sample	13.4	





# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

May 13, 2015

Dan Hatch  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Mr. Hatch:

Please find enclosed the analytical data report for the Gilman Project located in Issaquah, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506  
Ph: 360-352-2110  
Fax: 360-352-4154

Date: 5/5/2015 Page: 1 of 1

Client: G-LOGICS

Project Manager: DAN HATCH

Address: 40 2nd Ave SE

Project Name: GILMAN

City: Issaquah State: WA Zip: 98027

Location: 615 NW Gilman Blvd City, State: ISSAQUAH, WA

Phone: 425-391-6874 Fax:

Collector: ZACKARY WALL Date of Collection: 5/5/2015

Client Project # 01-0868-J

Email: ZackaryW@g-logics.com

Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260	SEM VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCA 5 Metals		Pb/As		
1 T1-W-8	8	7:30	WATER		X				X									
2 B-2-8	8	9:25	Soil		X				X									
3 B-3-8	8	10:30	Soil		X				X									
4 B-4-8	8	12:09	Soil		X				X									
5 WSW-4-5	5	9:40	Soil		X				X									
6 NSW-3-6	6	10:00	Soil		X				X									
7 ESW-2-5	5	10:18	Soil		X				X									
8 B-3-14	14	12:39	Soil		X				X				X					
9 SO-1-6	6	12:20	Soil		X				X	X								5-8-15 added
10 SO-2-6	6	12:30	Soil		X				X	X								DxDx per Stuart
11 B-3-10	10	12:12	Soil		X				X									via email. RUSH
12 ESW-1-8	8	14:15	Soil		X				X									
13 TW-1		14:08	WATER		<del>X</del>				<del>X</del>				X					
14 B-3-16	16	15:05	Soil		X				X									
15 SO-3-6	6	15:10	Soil		X				X									
16 SO-3-9	9	15:15	Soil		X				X	X								
17 SO-4-10	10	15:20	Soil		X				X									

Relinquished by: <u>Zackary Wall</u>	Date / Time: <u>5/5/15 3:37p</u>	Received by: <u>Janice Dejean</u>	Date / Time: <u>5/5/15 3:37PM</u>	Sample Receipt:	Remarks:  <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506  
Ph: 360-352-2110  
Fax: 360-352-4154

Date: 5/6/15 Page: 1 of 1

Client: G-Logics

Project Manager: DAN HATCH

Address: 40 2nd Ave SE

Project Name: Gilman

City: Issaquah State: WA Zip: 98027

Location: 615 NE Gilman Blvd City, State: Issaquah, WA

Phone: 425-391-6974 Fax:

Collector: ZACKARY WALL Date of Collection:

Client Project # 01-0868-J

Email: ZackaryW@g-logics.com



Sample Number	Depth	Time	Sample Type	Container Type	Analytes										Field Notes		
					VOA 802-1B	VOA 802-1B BTEX Only	VOA 8260	SEMI VOL 8270	NWTPH-HCID	NWTPH-GX	NWTPH-DX	PAH 8270	PCBs 8082	MTCA 5 Metals			
1 ESW-4-9'	9'	8:45	Soil		X				X								
2 ESW-4-50-6'	6'	9:00	Soil		X				X								
3 B-4-11'	11'	9:25	Soil		X				X								
4 SSW-4-8'	8'	12:01	Soil		X				X								
5 TI-W-2		11:55	Water		X				X								
6 B-5-11'	11'	13:55	Soil		X				X								
7 ESW-2-6'	6'	13:40	Soil		X				X								
8 NSW-7-5'	5'	13:24	Soil		X				X								
9 NSW-4-6.5'	6.5'	13:31	Soil		X				X								
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	

Relinquished by: <u>Zackary Wall</u>	Date / Time: <u>5/6/15 2:48</u>	Received by: <u>James R. Dwyer</u>	Date / Time: <u>5/6/15 2:48 PM</u>	Sample Receipt:	Remarks:  <u>ML</u>
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	TAT: 24HR 48HR 5-DAY

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE Ph: 360-352-2110  
 Olympia, WA 98506 Fax: 360-352-4154

Date: 5/7/2015 Page: 1 of 1

Client: G-logics

Project Manager: DAN HATCH

Address: 40 2nd Ave SE

Project Name: Gilman

City: ISSAQUAH State: WA Zip: 98027

Location: 615 NW Gilman Blvd City, State: ISS, WA

Phone: 425-391-6874 Fax:

Collector: ZACKARY WALL Date of Collection: 5/7/2015

Client Project # 01-868-J

Email: ZackaryWall@g-logics



Sample Number	Depth	Time	Sample Type	Container Type	Analytes											Field Notes			
					VOA 8021B	VOA 8021B BTEX Only	VOA 8260 Es, B, E, Cs, Mt, Bz	SEMI VOL 8270	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	PAH 8270	PCB's 8082	MTCA 5 Metals					
1 <u>BT-W-1855EA</u>		<u>8:10</u>	<u>WATER</u>		X				X										
2 <u>BT-W-0A1429</u>		<u>8:15</u>	<u>WATER</u>		X				X										
3 <u>NFC-2-11</u>	<u>11</u>	<u>10:17</u>	<u>Soil</u>		X				X										
4 <u>NWC-4-12</u>	<u>12</u>	<u>10:15</u>	<u>Soil</u>		X				X										
5 <u>SWC-4-11</u>	<u>11'</u>	<u>11:40</u>	<u>Soil</u>		X				X										
6 <u>NSO-11'</u>	<u>11'</u>	<u>12:00</u>	<u>Soil</u>		X				X										
7 <u>SEC-8</u>	<u>8</u>	<u>12:16</u>	<u>Soil</u>		X				X										
8 <u>SEC-10</u>	<u>10</u>	<u>12:20</u>	<u>Soil</u>		X				X										
9 <u>SSW-1-6</u>	<u>6</u>	<u>14:15</u>	<u>Soil</u>		X				X										
10 <u>PW-3</u>		<u>14:52</u>	<u>Water</u>		X	X			X										
11																			
12																			
13																			
14																			
15																			
16																			
17																			

5-8-15 added  
DxDx per Stuart  
via email RUSH

Relinquished by: <u>Zackary Wall</u>	Date / Time: <u>5/7/15 3:00p</u>	Received by: <u>James Deegan</u>	Date / Time: <u>5/7/15 3:00pm</u>	Sample Receipt:	Remarks:  <u>ML</u>  TAT: <u>24HR</u> 48HR 5-DAY
Relinquished by:	Date / Time:	Received by:	Date / Time:	Good Condition?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Cold?	
Relinquished by:	Date / Time:	Received by:	Date / Time:	Seals Intact?	
				Total Number of Containers	

# Libby Environmental, Inc.

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	5/5/15	nd	nd	nd	nd	nd	124
Method Blank	5/6/15	nd	nd	nd	nd	nd	112
LCS	5/5/15	125%	100%				132
LCS	5/6/15	131%	98%				123
B-2-8	5/5/15	0.24	0.37	0.32	2.43	76	int
B-3-8	5/5/15	0.078	nd	nd	0.26	17	125
B-4-8	5/5/15	0.47	1.53	1.42	6.09	26	int
WSW-4-5	5/5/15	0.037	nd	nd	nd	nd	int
NSW-3-6	5/5/15	0.099	0.10	0.06	1.10	47	117
ESW-2-5	5/5/15	0.034	nd	nd	nd	18	102
ESW-2-5 Dup	5/5/15	0.067	nd	nd	0.81	31	105
B-3-14	5/5/15	0.67	1.17	1.16	5.31	115	int
SO-1-6	5/5/15	0.022	nd	nd	nd	nd	115
SO-2-6	5/5/15	nd	nd	nd	nd	nd	124
B-3-10	5/5/15	0.028	nd	nd	nd	nd	116
ESW-1-8	5/5/15	nd	nd	nd	nd	nd	115
B-3-16	5/5/15	0.16	0.29	0.19	1.11	26	116
SO-3-6	5/6/15	nd	nd	nd	nd	nd	89
SO-3-9	5/6/15	nd	nd	nd	nd	nd	132
SO-4-10	5/6/15	0.033	nd	nd	nd	nd	122
ESW-2-5 MS	5/5/15	121%	97%				89
L150506-30 MS	5/6/15	98%	71%				91
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	5/5/15	nd	nd	nd	nd	nd	124
LCS	5/5/15	125%	100%				132
T1-W-8	5/5/15	2.5	nd	nd	nd	171	121
T1-W-8 Dup	5/5/15	2.9	nd	nd	nd	181	133
T1-W-8 MS	5/5/15	95	66				113
Practical Quantitation Limit		1	2	1	3	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## Analyses of Total Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead µg/L	Cadmium µg/L	Chromium µg/L	Arsenic µg/L
Method Blank	5/10/15	nd	nd	nd	nd
TW-1	5/10/15	101	nd	5.1	nd
Practical Quantitation Limit		5.0	0.5	5.0	3.0

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

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Olympia, WA 98506

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## QA/QC for Metals in Water by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (% Recovery)	Cadmium (% Recovery)	Chromium (% Recovery)	Arsenic (% Recovery)
LCS	5/10/15	102%	93%	83%	98%
L150505-2 MS	5/10/15	117%	83%	81%	120%
L150505-2 MSD	5/10/15	111%	84%	84%	114%
RPD	5/10/15	5%	1%	4%	5%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Dirk Peterson

# Libby Environmental, Inc.

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GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150505-30  
Client Project # 01-0868-J

## Analyses of Total Mercury in Water by EPA Method 7470

Sample Number	Date Analyzed	Mercury $\mu\text{g/L}$
Method Blank	5/7/15	nd
TW-1	5/7/15	nd
TW-1 Dup	5/7/15	nd
Practical Quantitation Limit		0.5

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

4139 Libby Road NE  
Olympia, WA 98506  
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GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150505-30  
Client Project # 01-0868-J

## QA/QC for Mercury by EPA Method 7470

Sample Number	Date Analyzed	Mercury (% Recovery)
LCS	5/7/15	102%
TW-1 MS	5/7/15	104%
TW-1 MSD	5/7/15	104%
RPD	5/7/15	0%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%  
ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## Analyses of Total Metals in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (mg/kg)	Arsenic (mg/kg)
Method Blank	5/10/15	nd	nd
B-3-14	5/10/15	nd	nd
B-3-14 Dup	5/10/15	nd	nd
Practical Quantitation Limit		5.0	5.0

"nd" Indicates not detected at the listed detection limits.

ANALYSES PERFORMED BY: Dirk Peterson

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Olympia, WA 98506

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Email: libbyenv@aol.com

GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150505-30

Client Project # 01-0868-J

## QA/QC for Metals in Soil by EPA Method 7010 Series

Sample Number	Date Analyzed	Lead (% Recovery)	Arsenic (% Recovery)
LCS	5/10/15	102%	98%
B-3-14 MS	5/10/15	105%	106%
B-3-14 MSD	5/10/15	112%	95%
RPD	5/10/15	6%	11%

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 75%-125%

ACCEPTABLE RPD IS 20%

ANALYSES PERFORMED BY: Dirk Peterson

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Phone: (360) 352-2110  
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Email: libbyenv@aol.com

GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150505-30  
Client Project # 01-0868-J

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	5/8/15	113	nd	nd
SO-1-6	5/8/15	104	nd	nd
SO-2-6	5/8/15	85	nd	nd
SO-3-9	5/8/15	121	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

# Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150506-30

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	5/6/15	nd	nd	nd	nd	nd	112
LCS	5/6/15	131%	98%				123
ESW-4-9'	5/6/15	0.044	nd	nd	nd	nd	97
ESW-4-SO-6'	5/6/15	nd	nd	nd	nd	nd	90
B-4-11'	5/6/15	0.067	nd	nd	nd	nd	127
B-4-11' Dup	5/6/15	0.065	nd	nd	nd	nd	111
SSW-4-8'	5/6/15	nd	nd	nd	nd	nd	131
B-5-11'	5/6/15	nd	nd	nd	nd	nd	115
ESW-2-6	5/6/15	0.034	nd	nd	nd	nd	133
NSW-1-5	5/6/15	nd	nd	nd	nd	nd	112
WSW-4-6.5'	5/6/15	0.083	nd	nd	0.20	11	122
WSW-4-6.5' Dup	5/6/15	0.083	nd	nd	0.18	11	106
B-4-11' MS	5/6/15	98%	71%				91
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150506-30

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	5/6/15	nd	nd	nd	nd	nd	112
LCS	5/6/15	131%	98%				123
T1-W-2	5/6/15	3.2	3.1	2.1	10.5	547	123
T1-W-2 Dup	5/6/15	3.5	3.5	2.3	11.4	625	129
T1-W-2 MS	5/6/15	92%	69%				125
Practical Quantitation Limit		1	2	1	3	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

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GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150507-30  
Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Soil

Sample Number	Date Analyzed	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Gasoline (mg/kg)	Surrogate Recovery (%)
Method Blank	5/7/15	nd	nd	nd	nd	nd	117
LCS	5/7/15	120%	99%				117
NEC-2-11	5/7/15	nd	nd	nd	nd	nd	83
NWC-4-12	5/7/15	nd	nd	nd	nd	nd	109
SWC-4-11	5/7/15	nd	nd	nd	nd	nd	92
SWC-4-11 Dup	5/7/15	nd	nd	nd	nd	nd	94
NSO-11	5/7/15	0.021	nd	nd	nd	nd	107
SEC-8	5/7/15	nd	nd	nd	nd	nd	95
SEC-10	5/7/15	nd	nd	nd	nd	nd	100
SSW-1-6	5/7/15	nd	nd	nd	nd	nd	106
SWC-4-11 MS	5/7/15	110%	78%				125
Practical Quantitation Limit		0.02	0.10	0.05	0.15	10	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

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GILMAN PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150507-30

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) & BTEX (EPA Method 8021B) in Water

Sample Number	Date Analyzed	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	Gasoline (µg/l)	Surrogate Recovery (%)
Method Blank	5/7/15	nd	nd	nd	nd	nd	117
LCS	5/7/15	120%	99%				117
BT-W-1855EA	5/7/15	nd	nd	nd	nd	nd	100
BT-W-1855EA Dup	5/7/15	nd	nd	nd	nd	nd	90
BT-W-OA1429	5/7/15	nd	nd	nd	nd	nd	123
PW-3	5/7/15	5.6	14	6.9	53	930	120
BT-W-1855EA MS	5/7/15	117%	84%				109
Practical Quantitation Limit		1	2	1	3	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman

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GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150507-30  
Client Project # 01-0868-J

## Specific Halogenated and Aromatic Hydrocarbons by EPA 8260C in Water

Sample Description		Method Blank	PW-3	PW-3 Dup
Date Sampled		N/A	5/7/15	5/7/15
Date Analyzed	PQL (µg/l)	5/8/15 (µg/l)	5/8/15 (µg/l)	5/8/15 (µg/l)
1,2-Dichloroethane (EDC)	1.0	nd	nd	nd
1,2-Dibromoethane (EDB) *	0.01	nd	nd	nd
Methyl <i>tert</i> - Butyl Ether (MTBE)	5.0	nd	nd	nd
Surrogate Recovery				
Dibromofluoromethane		92	85	92
1,2-Dichloroethane-d4		75	66	65
Toluene-d8		95	94	91
4-Bromofluorobenzene		103	103	11
"nd" Indicates not detected at listed detection limit.				
"int" Indicates that interference prevents determination.				

\* ANALYZED BY SIM

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

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GILMAN PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150507-30  
Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: PW-3							
	Matrix Spike			Matrix Spike Dup		RPD	
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)	
Benzene	10	10.3	103	10	11.0	110	6.6
Toluene	10	11.4	114	10	11.6	116	1.7
Surrogate Recovery							
Dibromofluoromethane			92			93	
1,2-Dichloroethane-d4			65			67	
Toluene-d8			91			90	
4-Bromofluorobenzene			111			114	

Laboratory Control Sample			
	Spiked Conc. (µg/l)	Measured Conc. (µg/l)	Spike Recovery (%)
Benzene	10	9.8	98
Toluene	10	10.2	102
Surrogate Recovery			
Dibromofluoromethane			96
1,2-Dichloroethane-d4			71
Toluene-d8			92
4-Bromofluorobenzene			106

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%  
ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

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GILMAN PROJECT  
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Issaquah, Washington  
Libby Project # L150507-30  
Client Project # 01-0868-J

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	5/8/15	113	nd	nd
NEC-2-11	5/8/15	103	nd	nd
NEC-2-11 Dup	5/8/15	82	nd	nd
SWC-4-11	5/8/15	86	nd	nd
Practical Quantitation Limit			50	250

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Jamie Deyman



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**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1506181**

June 23, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 1 sample(s) on 6/16/2015 for the analyses presented in the following report.

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***

***Gasoline by NWTPH-Gx***

***Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***

***Polychlorinated Biphenyls (PCB) by EPA 8082***

***Sample Moisture (Percent Moisture)***

***Total Metals by EPA Method 6020***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway", written in a cursive style.

Mike Ridgeway  
President



Date: 06/23/2015

---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1506181

## Work Order Sample Summary

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Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1506181-001	TANK5-5'	06/16/2015 8:30 AM	06/16/2015 10:41 AM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

### Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1506181

Date Reported: 6/23/2015

**Client:** G-Logics

**Collection Date:** 6/16/2015 8:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1506181-001

**Matrix:** Soil

**Client Sample ID:** TANK5-5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polychlorinated Biphenyls (PCB) by EPA 8082**

Batch ID: 11061

Analyst: NG

Aroclor 1016	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1221	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1232	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1242	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1248	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1254	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1260	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1262	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Aroclor 1268	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Total PCBs	ND	0.126		mg/Kg-dry	1	6/18/2015 2:31:00 AM
Surr: Decachlorobiphenyl	85.8	55.6-167		%REC	1	6/18/2015 2:31:00 AM
Surr: Tetrachloro-m-xylene	86.3	40.5-148		%REC	1	6/18/2015 2:31:00 AM

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 11050

Analyst: EC

Diesel (Fuel Oil)	ND	25.2		mg/Kg-dry	1	6/17/2015 12:51:00 AM
Heavy Oil	ND	63.1		mg/Kg-dry	1	6/17/2015 12:51:00 AM
Surr: 2-Fluorobiphenyl	95.5	50-150		%REC	1	6/17/2015 12:51:00 AM
Surr: o-Terphenyl	97.4	50-150		%REC	1	6/17/2015 12:51:00 AM

**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11064

Analyst: NG

Naphthalene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
2-Methylnaphthalene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
1-Methylnaphthalene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Acenaphthylene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Acenaphthene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Fluorene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Phenanthrene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Anthracene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Fluoranthene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Pyrene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Benz(a)anthracene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Chrysene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Benzo(b)fluoranthene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Benzo(k)fluoranthene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Benzo(a)pyrene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Indeno(1,2,3-cd)pyrene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Dibenz(a,h)anthracene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM



# Analytical Report

WO#: 1506181

Date Reported: 6/23/2015

**Client:** G-Logics

**Collection Date:** 6/16/2015 8:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1506181-001

**Matrix:** Soil

**Client Sample ID:** TANK5-5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11064

Analyst: NG

Benzo(g,h,i)perylene	ND	65.3		µg/Kg-dry	1	6/18/2015 3:36:00 PM
Surr: 2-Fluorobiphenyl	85.0	42.7-132		%REC	1	6/18/2015 3:36:00 PM
Surr: Terphenyl-d14 (surr)	108	48.8-157		%REC	1	6/18/2015 3:36:00 PM

**Gasoline by NWTPH-Gx**

Batch ID: 11121

Analyst: EM

Gasoline	ND	7.10		mg/Kg-dry	1	6/23/2015 4:02:00 PM
Surr: Toluene-d8	100	65-135		%REC	1	6/23/2015 4:02:00 PM
Surr: 4-Bromofluorobenzene	96.5	65-135		%REC	1	6/23/2015 4:02:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11053

Analyst: EM

Dichlorodifluoromethane (CFC-12)	ND	0.0822		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Chloromethane	ND	0.0822		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Vinyl chloride	ND	0.00274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Bromomethane	ND	0.123		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Trichlorofluoromethane (CFC-11)	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Chloroethane	ND	0.0822		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1-Dichloroethene	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Methylene chloride	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
trans-1,2-Dichloroethene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Methyl tert-butyl ether (MTBE)	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1-Dichloroethane	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
2,2-Dichloropropane	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
cis-1,2-Dichloroethene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Chloroform	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1,1-Trichloroethane (TCA)	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1-Dichloropropene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Carbon tetrachloride	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2-Dichloroethane (EDC)	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Benzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Trichloroethene (TCE)	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2-Dichloropropane	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Bromodichloromethane	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Dibromomethane	ND	0.0548		mg/Kg-dry	1	6/20/2015 12:38:00 AM
cis-1,3-Dichloropropene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Toluene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
trans-1,3-Dichloropropylene	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1,2-Trichloroethane	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM



# Analytical Report

WO#: 1506181

Date Reported: 6/23/2015

**Client:** G-Logics

**Collection Date:** 6/16/2015 8:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1506181-001

**Matrix:** Soil

**Client Sample ID:** TANK5-5'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Volatile Organic Compounds by EPA Method 8260**

Batch ID: 11053

Analyst: EM

1,3-Dichloropropane	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Tetrachloroethene (PCE)	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Dibromochloromethane	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2-Dibromoethane (EDB)	ND	0.00685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Chlorobenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1,1,2-Tetrachloroethane	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Ethylbenzene	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
m,p-Xylene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
o-Xylene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Styrene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Isopropylbenzene	ND	0.110		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Bromoform	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,1,2,2-Tetrachloroethane	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
n-Propylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Bromobenzene	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,3,5-Trimethylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
2-Chlorotoluene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
4-Chlorotoluene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
tert-Butylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2,3-Trichloropropane	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2,4-Trichlorobenzene	ND	0.0685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
sec-Butylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
4-Isopropyltoluene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,3-Dichlorobenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,4-Dichlorobenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
n-Butylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2-Dichlorobenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2-Dibromo-3-chloropropane	ND	0.685		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2,4-Trimethylbenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Hexachlorobutadiene	ND	0.137		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Naphthalene	ND	0.0411		mg/Kg-dry	1	6/20/2015 12:38:00 AM
1,2,3-Trichlorobenzene	ND	0.0274		mg/Kg-dry	1	6/20/2015 12:38:00 AM
Surr: Dibromofluoromethane	76.4	63.7-129		%REC	1	6/20/2015 12:38:00 AM
Surr: Toluene-d8	100	64.3-131		%REC	1	6/20/2015 12:38:00 AM
Surr: 1-Bromo-4-fluorobenzene	93.3	63.1-141		%REC	1	6/20/2015 12:38:00 AM

**Total Metals by EPA Method 6020**

Batch ID: 11049

Analyst: TN

Lead	1.56	0.216		mg/Kg-dry	1	6/16/2015 7:25:40 PM
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**Client:** G-Logics

**Collection Date:** 6/16/2015 8:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1506181-001

**Matrix:** Soil

**Client Sample ID:** TANK5-5'

<b>Analyses</b>	<b>Result</b>	<b>RL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Date Analyzed</b>
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**Sample Moisture (Percent Moisture)**

Batch ID: R23028      Analyst: CG

Percent Moisture	25.4			wt%	1	6/18/2015 9:15:16 AM
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**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID <b>MB-11049</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>		Prep Date: <b>6/16/2015</b>	RunNo: <b>23001</b>						
Client ID: <b>MBLKS</b>	Batch ID: <b>11049</b>			Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435802</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID <b>LCS-11049</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>		Prep Date: <b>6/16/2015</b>	RunNo: <b>23001</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>11049</b>			Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435803</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 225 0.200 237.0 0 95.1 75.1 124.9

Sample ID <b>1506171-003ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>		Prep Date: <b>6/16/2015</b>	RunNo: <b>23001</b>						
Client ID: <b>BATCH</b>	Batch ID: <b>11049</b>			Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435805</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 2.29 0.170 1.547 38.9 20 R

**NOTES:**

R - High RPD observed. The method is in control as indicated by the laboratory control sample (LCS).

Sample ID <b>1506171-003AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>		Prep Date: <b>6/16/2015</b>	RunNo: <b>23001</b>						
Client ID: <b>BATCH</b>	Batch ID: <b>11049</b>			Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435809</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 21.2 0.174 21.80 1.547 90.3 75 125

Sample ID <b>1506171-003AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>		Prep Date: <b>6/16/2015</b>	RunNo: <b>23001</b>						
Client ID: <b>BATCH</b>	Batch ID: <b>11049</b>			Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435810</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 20.3 0.172 21.47 1.547 87.5 75 125 21.23 4.31 20



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID <b>1506179-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>6/16/2015</b>	RunNo: <b>23005</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11050</b>					Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435902</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.3						0		30	
Heavy Oil	ND	50.8						0		30	
Surr: 2-Fluorobiphenyl	18.1		20.32		89.1	50	150		0		
Surr: o-Terphenyl	17.8		20.32		87.5	50	150		0		

Sample ID <b>LCS-11050</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/16/2015</b>	RunNo: <b>23005</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>11050</b>					Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435909</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	468	20.0	500.0	0	93.6	65	135				
Surr: 2-Fluorobiphenyl	20.9		20.00		104	50	150				
Surr: o-Terphenyl	19.4		20.00		96.9	50	150				

Sample ID <b>MB-11050</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/16/2015</b>	RunNo: <b>23005</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>11050</b>					Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435910</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	20.0									
Heavy Oil	ND	50.0									
Surr: 2-Fluorobiphenyl	17.5		20.00		87.7	50	150				
Surr: o-Terphenyl	17.0		20.00		85.1	50	150				



Date: 6/23/2015

Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

### QC SUMMARY REPORT

#### Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	1506186-001ADUP	SampType:	DUP	Units:	µg/Kg-dry	Prep Date:	6/17/2015	RunNo:	23056		
Client ID:	BATCH	Batch ID:	11064	Analysis Date:	6/18/2015	SeqNo:	436883				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	50.9	50.5						30.99	48.7	30	
2-Methylnaphthalene	ND	50.5						0		30	
1-Methylnaphthalene	ND	50.5						0		30	
Acenaphthylene	ND	50.5						0		30	
Acenaphthene	126	50.5						78.61	46.5	30	
Fluorene	158	50.5						96.34	48.5	30	R
Phenanthrene	1,300	50.5						801.9	47.5	30	R
Anthracene	410	50.5						272.1	40.5	30	R
Fluoranthene	1,610	50.5						1,079	39.2	30	R
Pyrene	1,340	50.5						901.5	39.2	30	R
Benz(a)anthracene	838	50.5						538.8	43.5	30	R
Chrysene	802	50.5						570.4	33.7	30	R
Benzo(b)fluoranthene	757	50.5						513.9	38.3	30	R
Benzo(k)fluoranthene	247	50.5						153.0	47.2	30	R
Benzo(a)pyrene	462	50.5						303.8	41.4	30	R
Indeno(1,2,3-cd)pyrene	233	50.5						142.7	48.1	30	R
Dibenz(a,h)anthracene	100	50.5						55.55	57.4	30	
Benzo(g,h,i)perylene	266	50.5						170.4	43.8	30	R
Surr: 2-Fluorobiphenyl	521		505.1		103	42.7	132		0		
Surr: Terphenyl-d14 (surr)	562		505.1		111	48.8	157		0		

**NOTES:**

R - High RPD due to suspected sample inhomogeneity. The method is in control as indicated by the Laboratory Control Sample (LCS).

Sample ID	1506186-002AMS	SampType:	MS	Units:	µg/Kg-dry	Prep Date:	6/17/2015	RunNo:	23056		
Client ID:	BATCH	Batch ID:	11064	Analysis Date:	6/18/2015	SeqNo:	436887				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	986	58.4	1,168	43.86	80.6	42.9	138				
2-Methylnaphthalene	946	58.4	1,168	24.20	78.9	42.8	151				
1-Methylnaphthalene	968	58.4	1,168	23.86	80.9	41.6	148				
Acenaphthylene	798	58.4	1,168	0	68.3	32.6	160				
Acenaphthene	939	58.4	1,168	0	80.4	46.3	142				



Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**

**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID	<b>1506186-002AMS</b>	SampType:	<b>MS</b>	Units:	<b>µg/Kg-dry</b>	Prep Date:	<b>6/17/2015</b>	RunNo:	<b>23056</b>		
Client ID:	<b>BATCH</b>	Batch ID:	<b>11064</b>			Analysis Date:	<b>6/18/2015</b>	SeqNo:	<b>436887</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Fluorene	996	58.4	1,168	27.43	82.9	43.4	153				
Phenanthrene	1,030	58.4	1,168	0	88.6	45.5	140				
Anthracene	1,020	58.4	1,168	0	87.4	32.6	160				
Fluoranthene	963	58.4	1,168	51.08	78.1	44.6	161				
Pyrene	962	58.4	1,168	58.76	77.3	48.3	158				
Benz(a)anthracene	992	58.4	1,168	0	84.9	57.5	169				
Chrysene	1,160	58.4	1,168	111.0	90.2	45.2	146				
Benzo(b)fluoranthene	1,050	58.4	1,168	0	90.3	42.2	168				
Benzo(k)fluoranthene	783	58.4	1,168	0	67.1	48	161				
Benzo(a)pyrene	1,000	58.4	1,168	0	85.7	34.4	179				
Indeno(1,2,3-cd)pyrene	1,080	58.4	1,168	0	92.6	41.1	165				
Dibenz(a,h)anthracene	1,110	58.4	1,168	0	94.8	38.1	166				
Benzo(g,h,i)perylene	1,030	58.4	1,168	0	88.6	45.6	157				
Surr: 2-Fluorobiphenyl	342		583.9		58.6	42.7	132				
Surr: Terphenyl-d14 (surr)	479		583.9		82.0	48.8	157				

Sample ID	<b>LCS-11064</b>	SampType:	<b>LCS</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>6/17/2015</b>	RunNo:	<b>23056</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>11064</b>			Analysis Date:	<b>6/18/2015</b>	SeqNo:	<b>436898</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	941	50.0	1,000	0	94.1	61.6	125				
2-Methylnaphthalene	888	50.0	1,000	0	88.8	58.2	129				
1-Methylnaphthalene	917	50.0	1,000	0	91.7	56.4	132				
Acenaphthylene	798	50.0	1,000	0	79.8	52.2	133				
Acenaphthene	867	50.0	1,000	0	86.7	54	131				
Fluorene	949	50.0	1,000	0	94.9	53.4	131				
Phenanthrene	1,080	50.0	1,000	0	108	55.6	128				
Anthracene	1,080	50.0	1,000	0	108	51	132				
Fluoranthene	1,010	50.0	1,000	0	101	48.4	134				
Pyrene	995	50.0	1,000	0	99.5	48.6	135				
Benz(a)anthracene	935	50.0	1,000	0	93.5	41.9	136				

**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

## QC SUMMARY REPORT

### Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	<b>LCS-11064</b>	SampType:	<b>LCS</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>6/17/2015</b>	RunNo:	<b>23056</b>		
Client ID:	<b>LCSS</b>	Batch ID:	<b>11064</b>			Analysis Date:	<b>6/18/2015</b>	SeqNo:	<b>436898</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chrysene	1,030	50.0	1,000	0	103	51.4	135				
Benzo(b)fluoranthene	996	50.0	1,000	0	99.6	39.7	137				
Benzo(k)fluoranthene	927	50.0	1,000	0	92.7	45.7	138				
Benzo(a)pyrene	1,020	50.0	1,000	0	102	40.9	141				
Indeno(1,2,3-cd)pyrene	1,070	50.0	1,000	0	107	41	140				
Dibenz(a,h)anthracene	1,060	50.0	1,000	0	106	37.6	140				
Benzo(g,h,i)perylene	1,010	50.0	1,000	0	101	45	134				
Surr: 2-Fluorobiphenyl	446		500.0		89.3	42.7	132				
Surr: Terphenyl-d14 (surr)	534		500.0		107	48.8	157				

Sample ID	<b>MB-11064</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/Kg</b>	Prep Date:	<b>6/17/2015</b>	RunNo:	<b>23056</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>11064</b>			Analysis Date:	<b>6/18/2015</b>	SeqNo:	<b>436899</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	50.0									
2-Methylnaphthalene	ND	50.0									
1-Methylnaphthalene	ND	50.0									
Acenaphthylene	ND	50.0									
Acenaphthene	ND	50.0									
Fluorene	ND	50.0									
Phenanthrene	ND	50.0									
Anthracene	ND	50.0									
Fluoranthene	ND	50.0									
Pyrene	ND	50.0									
Benz(a)anthracene	ND	50.0									
Chrysene	ND	50.0									
Benzo(b)fluoranthene	ND	50.0									
Benzo(k)fluoranthene	ND	50.0									
Benzo(a)pyrene	ND	50.0									
Indeno(1,2,3-cd)pyrene	ND	50.0									
Dibenz(a,h)anthracene	ND	50.0									

**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**

**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID <b>MB-11064</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>		Prep Date: <b>6/17/2015</b>	RunNo: <b>23056</b>						
Client ID: <b>MBLKS</b>	Batch ID: <b>11064</b>			Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436899</b>						
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	468		500.0		93.5	42.7	132				
Surr: Terphenyl-d14 (surr)	483		500.0		96.5	48.8	157				

**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID <b>1506105-019AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11061</b>					Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436491</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.898	0.117	1.165	0	77.1	61.7	139				
Aroclor 1260	0.936	0.117	1.165	0	80.3	63.1	138				
Surr: Decachlorobiphenyl	53.8		58.27		92.3	55.6	167				
Surr: Tetrachloro-m-xylene	43.9		58.27		75.4	40.5	148				

Sample ID <b>1506105-019AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>11061</b>					Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436492</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.909	0.117	1.166	0	77.9	61.7	139	0.8982	1.16	30	
Aroclor 1260	0.932	0.117	1.166	0	79.9	63.1	138	0.9358	0.375	30	
Surr: Decachlorobiphenyl	45.6		58.32		78.1	55.6	167		0		
Surr: Tetrachloro-m-xylene	35.3		58.32		60.5	40.5	148		0		

Sample ID <b>LCS1-11061</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>11061</b>					Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436498</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.680	0.100	1.000	0	68.0	45.8	133				
Aroclor 1260	0.711	0.100	1.000	0	71.1	57	134				
Surr: Decachlorobiphenyl	44.8		50.00		89.6	55.6	167				
Surr: Tetrachloro-m-xylene	36.7		50.00		73.4	40.5	148				

Sample ID <b>LCS2-11061</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>11061</b>					Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436499</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1232	0.722	0.100	1.000	0	72.2	45.8	133				
Surr: Decachlorobiphenyl	47.7		50.00		95.5	55.6	167				
Surr: Tetrachloro-m-xylene	41.3		50.00		82.6	40.5	148				



Date: 6/23/2015

Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID <b>LCS2-11061</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11061</b>	Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436499</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID <b>MB-11061</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/17/2015</b>	RunNo: <b>23033</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>11061</b>	Analysis Date: <b>6/18/2015</b>	SeqNo: <b>436500</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Aroclor 1016	ND	0.100									
Aroclor 1221	ND	0.100									
Aroclor 1232	ND	0.100									
Aroclor 1242	ND	0.100									
Aroclor 1248	ND	0.100									
Aroclor 1254	ND	0.100									
Aroclor 1260	ND	0.100									
Aroclor 1262	ND	0.100									
Aroclor 1268	ND	0.100									
Total PCBs	ND	0.100									
Surr: Decachlorobiphenyl	39.0		50.00		78.0	55.6	167				
Surr: Tetrachloro-m-xylene	32.0		50.00		64.0	40.5	148				



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID <b>LCS-11121</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/23/2015</b>	RunNo: <b>23149</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>11121</b>					Analysis Date: <b>6/23/2015</b>	SeqNo: <b>438522</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	25.7	5.00	25.00	0	103	65	135				
Surr: Toluene-d8	1.23		1.250		98.4	65	135				
Surr: 4-Bromofluorobenzene	1.26		1.250		100	65	135				

Sample ID <b>MB-11121</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/23/2015</b>	RunNo: <b>23149</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>11121</b>					Analysis Date: <b>6/23/2015</b>	SeqNo: <b>438523</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	5.00									
Surr: Toluene-d8	1.23		1.250		98.7	65	135				
Surr: 4-Bromofluorobenzene	1.22		1.250		97.6	65	135				

Sample ID <b>1506181-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>				Prep Date: <b>6/23/2015</b>	RunNo: <b>23149</b>				
Client ID: <b>TANK5-5'</b>	Batch ID: <b>11121</b>					Analysis Date: <b>6/23/2015</b>	SeqNo: <b>438525</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	7.10						0		30	
Surr: Toluene-d8	1.81		1.775		102	65	135		0		
Surr: 4-Bromofluorobenzene	1.70		1.775		95.9	65	135		0		



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506171-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435937</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	ND	0.0659						0		30	
Chloromethane	ND	0.0659						0		30	
Vinyl chloride	ND	0.00220						0		30	
Bromomethane	ND	0.0989						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.0549						0		30	
Chloroethane	ND	0.0659						0		30	
1,1-Dichloroethene	ND	0.0549						0		30	
Methylene chloride	ND	0.0220						0		30	
trans-1,2-Dichloroethene	ND	0.0220						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.0549						0		30	
1,1-Dichloroethane	ND	0.0220						0		30	
2,2-Dichloropropane	ND	0.0549						0		30	
cis-1,2-Dichloroethene	ND	0.0220						0		30	
Chloroform	ND	0.0220						0		30	
1,1,1-Trichloroethane (TCA)	ND	0.0220						0		30	
1,1-Dichloropropene	ND	0.0220						0		30	
Carbon tetrachloride	ND	0.0220						0		30	
1,2-Dichloroethane (EDC)	ND	0.0330						0		30	
Benzene	ND	0.0220						0		30	
Trichloroethene (TCE)	ND	0.0220						0		30	
1,2-Dichloropropane	ND	0.0220						0		30	
Bromodichloromethane	ND	0.0220						0		30	
Dibromomethane	ND	0.0439						0		30	
cis-1,3-Dichloropropene	ND	0.0220						0		30	
Toluene	ND	0.0220						0		30	
trans-1,3-Dichloropropylene	ND	0.0330						0		30	
1,1,2-Trichloroethane	ND	0.0330						0		30	
1,3-Dichloropropane	ND	0.0549						0		30	
Tetrachloroethene (PCE)	ND	0.0220						0		30	
Dibromochloromethane	ND	0.0330						0		30	
1,2-Dibromoethane (EDB)	ND	0.00549						0		30	



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506171-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435937</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Chlorobenzene	ND	0.0220						0		30	
1,1,1,2-Tetrachloroethane	ND	0.0330						0		30	
Ethylbenzene	ND	0.0330						0		30	
m,p-Xylene	ND	0.0220						0		30	
o-Xylene	ND	0.0220						0		30	
Styrene	ND	0.0220						0		30	
Isopropylbenzene	ND	0.0879						0		30	
Bromoform	ND	0.0220						0		30	
1,1,2,2-Tetrachloroethane	ND	0.0220						0		30	
n-Propylbenzene	ND	0.0220						0		30	
Bromobenzene	ND	0.0330						0		30	
1,3,5-Trimethylbenzene	ND	0.0220						0		30	
2-Chlorotoluene	ND	0.0220						0		30	
4-Chlorotoluene	ND	0.0220						0		30	
tert-Butylbenzene	ND	0.0220						0		30	
1,2,3-Trichloropropane	ND	0.0220						0		30	
1,2,4-Trichlorobenzene	ND	0.0549						0		30	
sec-Butylbenzene	ND	0.0220						0		30	
4-Isopropyltoluene	ND	0.0220						0		30	
1,3-Dichlorobenzene	ND	0.0220						0		30	
1,4-Dichlorobenzene	ND	0.0220						0		30	
n-Butylbenzene	ND	0.0220						0		30	
1,2-Dichlorobenzene	ND	0.0220						0		30	
1,2-Dibromo-3-chloropropane	ND	0.549						0		30	
1,2,4-Trimethylbenzene	ND	0.0220						0		30	
Hexachlorobutadiene	ND	0.110						0		30	
Naphthalene	ND	0.0330						0		30	
1,2,3-Trichlorobenzene	ND	0.0220						0		30	
Surr: Dibromofluoromethane	1.20		1.373		87.1	63.7	129		0		
Surr: Toluene-d8	1.15		1.373		84.0	64.3	131		0		
Surr: 1-Bromo-4-fluorobenzene	1.28		1.373		93.0	63.1	141		0		



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506171-001BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435937</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID <b>1506171-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/17/2015</b>	SeqNo: <b>435939</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	0.752	0.0701	1.168	0	64.4	43.5	121				
Chloromethane	0.875	0.0701	1.168	0	74.9	45	130				
Vinyl chloride	0.942	0.00234	1.168	0	80.6	51.2	146				
Bromomethane	1.08	0.105	1.168	0	92.2	21.3	120				
Trichlorofluoromethane (CFC-11)	1.14	0.0584	1.168	0	98.0	35	131				
Chloroethane	0.997	0.0701	1.168	0	85.4	43.8	117				
1,1-Dichloroethene	1.03	0.0584	1.168	0	88.0	61.9	141				
Methylene chloride	0.995	0.0234	1.168	0.02395	83.2	54.7	142				
trans-1,2-Dichloroethene	1.06	0.0234	1.168	0	90.9	52	136				
Methyl tert-butyl ether (MTBE)	1.05	0.0584	1.168	0	89.6	54.4	132				
1,1-Dichloroethane	1.17	0.0234	1.168	0	100	51.8	141				
2,2-Dichloropropane	1.10	0.0584	1.168	0	94.0	36	123				
cis-1,2-Dichloroethene	1.20	0.0234	1.168	0	102	58.6	136				
Chloroform	1.10	0.0234	1.168	0	94.1	53.2	129				
1,1,1-Trichloroethane (TCA)	1.13	0.0234	1.168	0	96.6	58.3	145				
1,1-Dichloropropene	1.14	0.0234	1.168	0	98.0	55.1	138				
Carbon tetrachloride	1.30	0.0234	1.168	0	111	53.3	144				
1,2-Dichloroethane (EDC)	1.19	0.0351	1.168	0	102	51.3	139				
Benzene	1.12	0.0234	1.168	0	96.0	63.5	133				
Trichloroethene (TCE)	1.17	0.0234	1.168	0	99.8	68.6	132				
1,2-Dichloropropane	1.00	0.0234	1.168	0	85.6	59	136				
Bromodichloromethane	1.10	0.0234	1.168	0	94.5	50.7	141				
Dibromomethane	1.00	0.0467	1.168	0	85.9	50.6	137				
cis-1,3-Dichloropropene	1.17	0.0234	1.168	0	100	50.4	138				
Toluene	1.14	0.0234	1.168	0	97.6	63.4	132				
trans-1,3-Dichloropropylene	1.13	0.0351	1.168	0	96.6	44.1	147				



Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506171-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/17/2015</b>	SeqNo: <b>435939</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane	1.04	0.0351	1.168	0.007594	88.4	51.6	137				
1,3-Dichloropropane	1.07	0.0584	1.168	0	92.0	53.1	134				
Tetrachloroethene (PCE)	1.30	0.0234	1.168	0	111	35.6	158				
Dibromochloromethane	1.21	0.0351	1.168	0	103	55.3	140				
1,2-Dibromoethane (EDB)	1.15	0.00584	1.168	0	98.9	50.4	136				
Chlorobenzene	1.24	0.0234	1.168	0	106	60	133				
1,1,1,2-Tetrachloroethane	1.15	0.0351	1.168	0	98.8	53.1	142				
Ethylbenzene	1.19	0.0351	1.168	0	102	54.5	134				
m,p-Xylene	2.69	0.0234	2.337	0	115	53.1	132				
o-Xylene	1.30	0.0234	1.168	0	112	53.3	139				
Styrene	1.24	0.0234	1.168	0	106	51.1	132				
Isopropylbenzene	1.23	0.0935	1.168	0	106	58.9	138				
Bromoform	1.36	0.0234	1.168	0	116	57.9	130				
1,1,1,2,2-Tetrachloroethane	1.12	0.0234	1.168	0	95.8	51.9	131				
n-Propylbenzene	1.21	0.0234	1.168	0	104	53.6	140				
Bromobenzene	1.40	0.0351	1.168	0	120	54.2	140				
1,3,5-Trimethylbenzene	1.23	0.0234	1.168	0	105	51.8	136				
2-Chlorotoluene	1.21	0.0234	1.168	0	104	51.6	136				
4-Chlorotoluene	1.11	0.0234	1.168	0	95.1	50.1	139				
tert-Butylbenzene	1.18	0.0234	1.168	0	101	50.5	135				
1,2,3-Trichloropropane	1.25	0.0234	1.168	0	107	50.5	131				
1,2,4-Trichlorobenzene	1.36	0.0584	1.168	0	116	50.8	130				
sec-Butylbenzene	1.22	0.0234	1.168	0	104	52.6	141				
4-Isopropyltoluene	1.18	0.0234	1.168	0	101	52.9	134				
1,3-Dichlorobenzene	1.29	0.0234	1.168	0	111	52.6	131				
1,4-Dichlorobenzene	1.30	0.0234	1.168	0	111	52.9	129				
n-Butylbenzene	1.15	0.0234	1.168	0	98.6	52.6	130				
1,2-Dichlorobenzene	1.22	0.0234	1.168	0	105	55.8	129				
1,2-Dibromo-3-chloropropane	1.06	0.584	1.168	0	91.1	40.5	131				
1,2,4-Trimethylbenzene	1.18	0.0234	1.168	0	101	50.6	137				
Hexachlorobutadiene	1.33	0.117	1.168	0	114	40.6	158				



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>1506171-002BMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/17/2015</b>	SeqNo: <b>435939</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	1.21	0.0351	1.168	0.01402	102	52.3	124				
1,2,3-Trichlorobenzene	1.41	0.0234	1.168	0	120	54.4	124				
Surr: Dibromofluoromethane	1.34		1.460		92.0	63.7	129				
Surr: Toluene-d8	1.27		1.460		86.7	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.33		1.460		90.8	63.1	141				

Sample ID <b>LCS-11053</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435960</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	0.686	0.0600	1.000	0	68.6	37.2	139				
Chloromethane	0.783	0.0600	1.000	0	78.3	38.8	132				
Vinyl chloride	0.806	0.00200	1.000	0	80.6	56.1	130				
Bromomethane	0.989	0.0900	1.000	0	98.9	41.3	148				
Trichlorofluoromethane (CFC-11)	0.846	0.0500	1.000	0	84.6	42.9	147				
Chloroethane	1.03	0.0600	1.000	0	103	37.1	144				
1,1-Dichloroethene	0.785	0.0500	1.000	0	78.5	49.7	142				
Methylene chloride	0.784	0.0200	1.000	0	78.4	46.3	140				
trans-1,2-Dichloroethene	0.798	0.0200	1.000	0	79.8	68	130				
Methyl tert-butyl ether (MTBE)	0.789	0.0500	1.000	0	78.9	59.1	138				
1,1-Dichloroethane	0.882	0.0200	1.000	0	88.2	65.5	132				
2,2-Dichloropropane	0.868	0.0500	1.000	0	86.8	28.1	149				
cis-1,2-Dichloroethene	0.897	0.0200	1.000	0	89.6	71.3	135				
Chloroform	0.856	0.0200	1.000	0	85.6	67.5	129				
1,1,1-Trichloroethane (TCA)	0.863	0.0200	1.000	0	86.3	69	132				
1,1-Dichloropropene	0.780	0.0200	1.000	0	78.0	72.7	131				
Carbon tetrachloride	0.876	0.0200	1.000	0	87.6	63.4	137				
1,2-Dichloroethane (EDC)	0.894	0.0300	1.000	0	89.4	61.9	136				
Benzene	0.860	0.0200	1.000	0	86.1	64.3	133				
Trichloroethene (TCE)	0.846	0.0200	1.000	0	84.6	65.5	137				
1,2-Dichloropropane	0.747	0.0200	1.000	0	74.7	63.2	142				



Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	LCS-11053	SampType:	LCS	Units:	mg/Kg	Prep Date:	6/16/2015	RunNo:	23000		
Client ID:	LCSS	Batch ID:	11053	Analysis Date:	6/16/2015	SeqNo:	435960				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	0.810	0.0200	1.000	0	81.0	73.2	131				
Dibromomethane	0.785	0.0400	1.000	0	78.5	70	130				
cis-1,3-Dichloropropene	0.890	0.0200	1.000	0	89.0	59.1	143				
Toluene	0.868	0.0200	1.000	0	86.8	67.3	138				
trans-1,3-Dichloropropylene	0.820	0.0300	1.000	0	82.0	49.2	149				
1,1,2-Trichloroethane	0.765	0.0300	1.000	0	76.5	74.5	129				
1,3-Dichloropropane	0.813	0.0500	1.000	0	81.3	70	130				
Tetrachloroethene (PCE)	0.893	0.0200	1.000	0	89.2	52.7	150				
Dibromochloromethane	0.884	0.0300	1.000	0	88.4	70.6	144				
1,2-Dibromoethane (EDB)	0.870	0.00500	1.000	0	87.0	70	130				
Chlorobenzene	0.957	0.0200	1.000	0	95.7	76.1	123				
1,1,1,2-Tetrachloroethane	0.953	0.0300	1.000	0	95.3	74.8	131				
Ethylbenzene	0.906	0.0300	1.000	0	90.7	74	129				
m,p-Xylene	1.98	0.0200	2.000	0	98.8	79.8	128				
o-Xylene	0.972	0.0200	1.000	0	97.2	72.7	124				
Styrene	0.966	0.0200	1.000	0	96.6	76.8	130				
Isopropylbenzene	0.933	0.0800	1.000	0	93.3	70	130				
Bromoform	0.903	0.0200	1.000	0	90.3	67	154				
1,1,1,2,2-Tetrachloroethane	0.815	0.0200	1.000	0	81.5	60	130				
n-Propylbenzene	0.906	0.0200	1.000	0	90.7	74.8	125				
Bromobenzene	1.01	0.0300	1.000	0	101	49.2	144				
1,3,5-Trimethylbenzene	0.913	0.0200	1.000	0	91.3	74.6	123				
2-Chlorotoluene	0.906	0.0200	1.000	0	90.7	76.7	129				
4-Chlorotoluene	0.861	0.0200	1.000	0	86.1	77.5	125				
tert-Butylbenzene	0.875	0.0200	1.000	0	87.5	66.2	130				
1,2,3-Trichloropropane	0.856	0.0200	1.000	0	85.6	67.9	136				
1,2,4-Trichlorobenzene	0.964	0.0500	1.000	0	96.4	65.6	137				
sec-Butylbenzene	0.917	0.0200	1.000	0	91.7	75.6	133				
4-Isopropyltoluene	0.881	0.0200	1.000	0	88.1	76.8	131				
1,3-Dichlorobenzene	0.890	0.0200	1.000	0	89.0	72.8	128				
1,4-Dichlorobenzene	0.954	0.0200	1.000	0	95.4	72.6	126				



**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>LCS-11053</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>				
Client ID: <b>LCSS</b>	Batch ID: <b>11053</b>					Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435960</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
n-Butylbenzene	0.852	0.0200	1.000	0	85.2	65.3	136				
1,2-Dichlorobenzene	0.872	0.0200	1.000	0	87.2	72.8	126				
1,2-Dibromo-3-chloropropane	0.848	0.500	1.000	0	84.9	61.2	139				
1,2,4-Trimethylbenzene	0.874	0.0200	1.000	0	87.4	77.5	129				
Hexachlorobutadiene	1.07	0.100	1.000	0	107	42	151				
Naphthalene	0.721	0.0300	1.000	0	72.1	62.3	134				
1,2,3-Trichlorobenzene	0.884	0.0200	1.000	0	88.4	62.1	140				
Surr: Dibromofluoromethane	1.18		1.250		94.0	63.7	129				
Surr: Toluene-d8	1.12		1.250		89.6	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.16		1.250		92.8	63.1	141				

Sample ID <b>MB-11053</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>				Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>				
Client ID: <b>MBLKS</b>	Batch ID: <b>11053</b>					Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435961</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	0.0600									
Chloromethane	ND	0.0600									
Vinyl chloride	ND	0.00200									
Bromomethane	ND	0.0900									
Trichlorofluoromethane (CFC-11)	ND	0.0500									
Chloroethane	ND	0.0600									
1,1-Dichloroethene	ND	0.0500									
Methylene chloride	ND	0.0200									
trans-1,2-Dichloroethene	ND	0.0200									
Methyl tert-butyl ether (MTBE)	ND	0.0500									
1,1-Dichloroethane	ND	0.0200									
2,2-Dichloropropane	ND	0.0500									
cis-1,2-Dichloroethene	ND	0.0200									
Chloroform	ND	0.0200									
1,1,1-Trichloroethane (TCA)	ND	0.0200									
1,1-Dichloropropene	ND	0.0200									



Date: 6/23/2015

Work Order: 1506181  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>MB-11053</b>	SampType:	<b>MBLK</b>	Units:	<b>mg/Kg</b>	Prep Date:	<b>6/16/2015</b>	RunNo:	<b>23000</b>		
Client ID:	<b>MBLKS</b>	Batch ID:	<b>11053</b>			Analysis Date:	<b>6/16/2015</b>	SeqNo:	<b>435961</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Carbon tetrachloride	ND	0.0200									
1,2-Dichloroethane (EDC)	ND	0.0300									
Benzene	ND	0.0200									
Trichloroethene (TCE)	ND	0.0200									
1,2-Dichloropropane	ND	0.0200									
Bromodichloromethane	ND	0.0200									
Dibromomethane	ND	0.0400									
cis-1,3-Dichloropropene	ND	0.0200									
Toluene	ND	0.0200									
trans-1,3-Dichloropropylene	ND	0.0300									
1,1,2-Trichloroethane	ND	0.0300									
1,3-Dichloropropane	ND	0.0500									
Tetrachloroethene (PCE)	ND	0.0200									
Dibromochloromethane	ND	0.0300									
1,2-Dibromoethane (EDB)	ND	0.00500									
Chlorobenzene	ND	0.0200									
1,1,1,2-Tetrachloroethane	ND	0.0300									
Ethylbenzene	ND	0.0300									
m,p-Xylene	ND	0.0200									
o-Xylene	ND	0.0200									
Styrene	ND	0.0200									
Isopropylbenzene	ND	0.0800									
Bromoform	ND	0.0200									
1,1,1,2,2-Tetrachloroethane	ND	0.0200									
n-Propylbenzene	ND	0.0200									
Bromobenzene	ND	0.0300									
1,3,5-Trimethylbenzene	ND	0.0200									
2-Chlorotoluene	ND	0.0200									
4-Chlorotoluene	ND	0.0200									
tert-Butylbenzene	ND	0.0200									
1,2,3-Trichloropropane	ND	0.0200									

**Work Order:** 1506181  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>MB-11053</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>6/16/2015</b>	RunNo: <b>23000</b>
Client ID: <b>MBLKS</b>	Batch ID: <b>11053</b>		Analysis Date: <b>6/16/2015</b>	SeqNo: <b>435961</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.0500									
sec-Butylbenzene	ND	0.0200									
4-Isopropyltoluene	ND	0.0200									
1,3-Dichlorobenzene	ND	0.0200									
1,4-Dichlorobenzene	ND	0.0200									
n-Butylbenzene	ND	0.0200									
1,2-Dichlorobenzene	ND	0.0200									
1,2-Dibromo-3-chloropropane	ND	0.500									
1,2,4-Trimethylbenzene	ND	0.0200									
Hexachlorobutadiene	ND	0.100									
Naphthalene	ND	0.0300									
1,2,3-Trichlorobenzene	ND	0.0200									
Surr: Dibromofluoromethane	1.24		1.250		99.2	63.7	129				
Surr: Toluene-d8	1.09		1.250		87.3	64.3	131				
Surr: 1-Bromo-4-fluorobenzene	1.20		1.250		96.1	63.1	141				



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1506181</b>
Logged by: <b>Erica Silva</b>	Date Received: <b>6/16/2015 10:41:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete?      Yes       No       Not Present
2. How was the sample delivered?      Client

### Log In

3. Coolers are present?      Yes       No       NA
4. Shipping container/cooler in good condition?      Yes       No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact)      Yes       No       Not Required
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >0°C to 10.0°C \*      Yes       No       NA

### Sample received straight from field

8. Sample(s) in proper container(s)?      Yes       No
9. Sufficient sample volume for indicated test(s)?      Yes       No
10. Are samples properly preserved?      Yes       No
11. Was preservative added to bottles?      Yes       No       NA
12. Is there headspace in the VOA vials?      Yes       No       NA
13. Did all samples containers arrive in good condition(unbroken)?      Yes       No
14. Does paperwork match bottle labels?      Yes       No
15. Are matrices correctly identified on Chain of Custody?      Yes       No
16. Is it clear what analyses were requested?      Yes       No
17. Were all holding times able to be met?      Yes       No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order?      Yes       No       NA

Person Notified:	<input type="text" value="Stuart Hyde"/>	Date	<input type="text" value="6/16/2015"/>
By Whom:	<input type="text" value="Erica Silva"/>	Via:	<input type="checkbox"/> eMail <input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text" value="EDB by 8011"/>		
Client Instructions:	<input type="text" value="Proceed with EDB by 8260"/>		

19. Additional remarks:

Sample received straight from field.

### Item Information

Item #	Temp °C
Cooler	7.2
Sample	10.2

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# Fremont

ATMOSPHERIC

3600 Fremont Ave N. Tel: 206-352-3390  
Seattle, WA 98103 Fax: 206-352-7178

Date: 6/16/15

Page: 1 of 1

Laboratory Project No. (external): 1506181

## Chain of Custody Record

Client: Co-logics  
Address: 402nd Ave SE  
City, State, Zip: Issaquah  
Tel: 425-391-6874 Fax:

Project Name: Chelsea Stone  
Project No: 01-0888-1  
Location: Issaquah  
Reports To (PM): SH  
Email: Shanthi@co-logics

\*Matrix Codes: A = Air, AQ = Aquatics, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

Sample Name	Sample Date	Sample Time	Sample Type Matrix*	VOC (EPA 8260)	OX/BTEX	BTEX	Gasoline Range Organics (GRO)	Hydrocarbon Identification (HCD)	Distill/Heavy Oil Range Organics (HOR)	Semi Vol (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020/200.8)	Total (T) / Dissolved (D)	Asiate (IC)**	ECB (8011)	EDC	MTBE	Comments/Depth
1 TALKS-51	6/16	0830	S	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	2 water, 2 jars
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			

\*\*Metals Analysis (Circle): MTCA-5 RSCA-B Priority Pollutants TAL Analytical Ag Al As B Ba Ca Cd Cr Cu Fe Hg K Mg Mn Na Pb Se Sb Sn Sr Ti U V Zn  
\*\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide D Phosphate Fluoride Nitrate/nitrite  
Special Remarks:

Sample Disposal:  Return to Client  Disposal by Lab (A fee may be assessed if samples are returned after 30 days.)  
Time-interval times for samples received after 4:00pm will begin on the following business day.  
Acquired by: SH Date/Time: 6/16/15 10:41 Received by: Shanthi Date/Time: 6/16/15 10:41  
Requisitioned: SH Date/Time: 6/16/15 10:41 Date/Time: 6/16/15 10:41  
\*Check coordinate with the lab in advance



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1507266**

July 28, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 1 sample(s) on 7/27/2015 for the analyses presented in the following report.

***1,2-Dibromoethane (EDB) by EPA Method 8011***

***Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.***

***Gasoline by NWTPH-Gx***

***Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***

***Polychlorinated Biphenyls (PCB) by EPA 8082***

***Total Metals by EPA Method 200.8***

***Volatile Organic Compounds by EPA Method 8260***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway  
President



Date: 07/28/2015

---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1507266

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1507266-001	TANK5-WATER	07/27/2015 10:00 AM	07/27/2015 11:49 AM

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Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

**CLIENT:** G-Logics  
**Project:** Gilman Square

---

**I. SAMPLE RECEIPT:**

Samples receipt information is recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1507266-001B) required Florisil Cleanup Procedure (Using Method No 3620C).

Prep Comments for METHOD (PREP-PCB-W), SAMPLE (1507266-001B) required Acid Cleanup Procedure (Using Method No 3665A).

## Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

## Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



# Analytical Report

WO#: 1507266

Date Reported: 7/28/2015

**Client:** G-Logics

**Collection Date:** 7/27/2015 10:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1507266-001

**Matrix:** Wastewater

**Client Sample ID:** TANK5-WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**1,2-Dibromoethane (EDB) by EPA Method 8011**

Batch ID: 11434 Analyst: AK

1,2-Dibromoethane (EDB)	0.717	0.0121		µg/L	1	7/28/2015 2:30:00 AM
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**Polychlorinated Biphenyls (PCB) by EPA 8082**

Batch ID: 11432 Analyst: NG

Aroclor 1016	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1221	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1232	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1242	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1248	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1254	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1260	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1262	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Aroclor 1268	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Total PCBs	ND	0.199		µg/L	1	7/27/2015 10:36:00 PM
Surr: Decachlorobiphenyl	102	23.1-172		%REC	1	7/27/2015 10:36:00 PM
Surr: Tetrachloro-m-xylene	182	10-125	S	%REC	1	7/27/2015 10:36:00 PM

**NOTES:**

S - High surrogate recovery attributed to TPH interference. The method is in control as indicated by the Method Blank (MB) & Laboratory Control Sample (LCS).

**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Batch ID: 11431 Analyst: EC

Diesel (Fuel Oil)	ND	49.0		µg/L	1	7/27/2015 8:40:00 PM
Diesel Range Organics (C12-C24)	4387	4,900	JD	µg/L	100	7/27/2015 9:43:00 PM
Heavy Oil	105,000	9,810	D	µg/L	100	7/27/2015 9:43:00 PM
Surr: 2-Fluorobiphenyl	112	50-150		%REC	1	7/27/2015 8:40:00 PM
Surr: o-Terphenyl	103	50-150		%REC	1	7/27/2015 8:40:00 PM

**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11433 Analyst: NG

Naphthalene	753	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
2-Methylnaphthalene	1,990	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
1-Methylnaphthalene	1,050	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Acenaphthylene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Acenaphthene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Fluorene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Phenanthrene	222	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Anthracene	55.1	98.9	JD	µg/L	1000	7/28/2015 10:12:00 AM
Fluoranthene	104	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM



# Analytical Report

WO#: 1507266

Date Reported: 7/28/2015

**Client:** G-Logics

**Collection Date:** 7/27/2015 10:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1507266-001

**Matrix:** Wastewater

**Client Sample ID:** TANK5-WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11433

Analyst: NG

Pyrene	208	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Benz(a)anthracene	46.1	98.9	JD	µg/L	1000	7/28/2015 10:12:00 AM
Chrysene	50.6	98.9	JD	µg/L	1000	7/28/2015 10:12:00 AM
Benzo(b)fluoranthene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Benzo(k)fluoranthene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Benzo(a)pyrene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Indeno(1,2,3-cd)pyrene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Dibenz(a,h)anthracene	ND	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Benzo(g,h,i)perylene	116	98.9	D	µg/L	1000	7/28/2015 10:12:00 AM
Surr: 2-Fluorobiphenyl	72.7	23.9-122	D	%REC	1000	7/28/2015 10:12:00 AM
Surr: Terphenyl-d14	82.2	33.4-135	D	%REC	1000	7/28/2015 10:12:00 AM

**Gasoline by NWTPH-Gx**

Batch ID: R23865

Analyst: BC

Gasoline	2,050	500	D	µg/L	10	7/28/2015 11:58:00 AM
Surr: Toluene-d8	103	65-135		%REC	1	7/28/2015 12:31:00 PM
Surr: 4-Bromofluorobenzene	105	65-135		%REC	1	7/28/2015 12:31:00 PM

**Volatile Organic Compounds by EPA Method 8260**

Batch ID: R23863

Analyst: BC

Dichlorodifluoromethane (CFC-12)	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Chloromethane	1.13	1.00		µg/L	1	7/28/2015 12:31:00 PM
Vinyl chloride	ND	0.200		µg/L	1	7/28/2015 12:31:00 PM
Bromomethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Trichlorofluoromethane (CFC-11)	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Chloroethane	1.30	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1-Dichloroethene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Methylene chloride	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
trans-1,2-Dichloroethene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1-Dichloroethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
2,2-Dichloropropane	ND	2.00		µg/L	1	7/28/2015 12:31:00 PM
cis-1,2-Dichloroethene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Chloroform	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1,1-Trichloroethane (TCA)	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1-Dichloropropene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Carbon tetrachloride	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2-Dichloroethane (EDC)	2.48	1.00		µg/L	1	7/28/2015 12:31:00 PM
Benzene	23.7	1.00		µg/L	1	7/28/2015 12:31:00 PM



# Analytical Report

WO#: 1507266

Date Reported: 7/28/2015

**Client:** G-Logics

**Collection Date:** 7/27/2015 10:00:00 AM

**Project:** Gilman Square

**Lab ID:** 1507266-001

**Matrix:** Wastewater

**Client Sample ID:** TANK5-WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>Volatile Organic Compounds by EPA Method 8260</b>					Batch ID: R23863	Analyst: BC
Trichloroethene (TCE)	ND	0.500		µg/L	1	7/28/2015 12:31:00 PM
1,2-Dichloropropane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Bromodichloromethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Dibromomethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
cis-1,3-Dichloropropene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Toluene	152	10.0	D	µg/L	10	7/28/2015 11:58:00 AM
trans-1,3-Dichloropropene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1,2-Trichloroethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,3-Dichloropropane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Tetrachloroethene (PCE)	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Dibromochloromethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2-Dibromoethane (EDB)	0.530	0.0600		µg/L	1	7/28/2015 12:31:00 PM
Chlorobenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1,1,2-Tetrachloroethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Ethylbenzene	27.6	1.00		µg/L	1	7/28/2015 12:31:00 PM
m,p-Xylene	123	10.0	D	µg/L	10	7/28/2015 11:58:00 AM
o-Xylene	78.5	10.0	D	µg/L	10	7/28/2015 11:58:00 AM
Styrene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
Isopropylbenzene	2.30	1.00		µg/L	1	7/28/2015 12:31:00 PM
Bromoform	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,1,2,2-Tetrachloroethane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
n-Propylbenzene	7.40	1.00		µg/L	1	7/28/2015 12:31:00 PM
Bromobenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,3,5-Trimethylbenzene	24.6	1.00		µg/L	1	7/28/2015 12:31:00 PM
2-Chlorotoluene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
4-Chlorotoluene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
tert-Butylbenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2,3-Trichloropropane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2,4-Trichlorobenzene	ND	2.00		µg/L	1	7/28/2015 12:31:00 PM
sec-Butylbenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
4-Isopropyltoluene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,3-Dichlorobenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,4-Dichlorobenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
n-Butylbenzene	3.90	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2-Dichlorobenzene	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2-Dibromo-3-chloropropane	ND	1.00		µg/L	1	7/28/2015 12:31:00 PM
1,2,4-Trimethylbenzene	104	1.00		µg/L	1	7/28/2015 12:31:00 PM
Hexachlorobutadiene	ND	4.00		µg/L	1	7/28/2015 12:31:00 PM
Naphthalene	122	1.00		µg/L	1	7/28/2015 12:31:00 PM



# Analytical Report

WO#: 1507266  
Date Reported: 7/28/2015

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1507266-001

**Collection Date:** 7/27/2015 10:00:00 AM  
**Matrix:** Wastewater

**Client Sample ID:** TANK5-WATER

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Volatile Organic Compounds by EPA Method 8260</u></b>			Batch ID: R23863		Analyst: BC	
1,2,3-Trichlorobenzene	ND	4.00		µg/L	1	7/28/2015 12:31:00 PM
Surr: Dibromofluoromethane	82.3	77.4-147		%REC	1	7/28/2015 12:31:00 PM
Surr: Toluene-d8	98.6	40.1-139		%REC	1	7/28/2015 12:31:00 PM
Surr: 1-Bromo-4-fluorobenzene	103	64.2-128		%REC	1	7/28/2015 12:31:00 PM
<b><u>Total Metals by EPA Method 200.8</u></b>			Batch ID: 11429		Analyst: TN	
Lead	2,780	1.00		µg/L	1	7/28/2015 4:19:14 PM



**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 200.8**

Sample ID <b>MB-11429</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23866</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>11429</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452074</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00

Sample ID <b>LCS-11429</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23866</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>11429</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452075</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 52.7 1.00 50.00 0 105 85 115

Sample ID <b>1507262-003CDUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23866</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11429</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452077</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 1.00 0 30

Sample ID <b>1507262-003CMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23866</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11429</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452078</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 250 1.00 250.0 0.4645 99.7 70 130

Sample ID <b>1507262-003CMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23866</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11429</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452079</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 259 1.00 250.0 0.4645 103 70 130 249.6 3.58 30



Date: 7/28/2015

**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**1,2-Dibromoethane (EDB) by EPA Method 8011**

Sample ID <b>1507207-002BMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23850</b>					
Client ID: <b>BATCH</b>	Batch ID: <b>11434</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>451888</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB)                      1.48      0.0131      1.308                      0                      113                      60                      140

Sample ID <b>LCS-11434</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23850</b>					
Client ID: <b>LCSW</b>	Batch ID: <b>11434</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>451892</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB)                      1.09      0.0100      1.000                      0                      109                      60                      140

Sample ID <b>LCS-11434</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23850</b>					
Client ID: <b>LCSW02</b>	Batch ID: <b>11434</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>451893</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB)                      1.10      0.0100      1.000                      0                      110                      60                      140                      1.092                      0.912                      20

Sample ID <b>MB-11434</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>			Prep Date: <b>7/27/2015</b>	RunNo: <b>23850</b>					
Client ID: <b>MBLKW</b>	Batch ID: <b>11434</b>				Analysis Date: <b>7/28/2015</b>	SeqNo: <b>451894</b>					
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,2-Dibromoethane (EDB)                      ND                      0.0100



**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.**

Sample ID <b>1507266-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>				Prep Date: <b>7/27/2015</b>	RunNo: <b>23839</b>				
Client ID: <b>TANK5-WATER</b>	Batch ID: <b>11431</b>					Analysis Date: <b>7/27/2015</b>	SeqNo: <b>451746</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	49.3						0		30	
Diesel Range Organics (C12-C24)	7,000	49.3						6,918	1.23	30	E
Heavy Oil	75,500	98.6						91,340	19.0	30	E
Surr: 2-Fluorobiphenyl	81.9		78.85		104	50	150		0		
Surr: o-Terphenyl	77.5		78.85		98.3	50	150		0		

Sample ID <b>LCS-11431</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>				Prep Date: <b>7/27/2015</b>	RunNo: <b>23839</b>				
Client ID: <b>LCSW</b>	Batch ID: <b>11431</b>					Analysis Date: <b>7/27/2015</b>	SeqNo: <b>451752</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	947	50.0	1,000	0	94.7	65	135				
Surr: 2-Fluorobiphenyl	84.0		80.00		105	50	150				
Surr: o-Terphenyl	94.6		80.00		118	50	150				

Sample ID <b>MB-11431</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>				Prep Date: <b>7/27/2015</b>	RunNo: <b>23839</b>				
Client ID: <b>MBLKW</b>	Batch ID: <b>11431</b>					Analysis Date: <b>7/27/2015</b>	SeqNo: <b>451753</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	50.0									
Heavy Oil	ND	100									
Surr: 2-Fluorobiphenyl	75.4		80.00		94.3	50	150				
Surr: o-Terphenyl	78.7		80.00		98.4	50	150				

**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

## QC SUMMARY REPORT

### Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID	MB-11433	SampType:	MBLK	Units:	µg/L	Prep Date:	7/27/2015	RunNo:	23847		
Client ID:	MBLKW	Batch ID:	11433	Analysis Date:	7/28/2015	SeqNo:	451926				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	ND	0.100									
2-Methylnaphthalene	ND	0.100									
1-Methylnaphthalene	ND	0.100									
Acenaphthylene	ND	0.100									
Acenaphthene	ND	0.100									
Fluorene	ND	0.100									
Phenanthrene	ND	0.100									
Anthracene	ND	0.100									
Fluoranthene	ND	0.100									
Pyrene	ND	0.100									
Benz(a)anthracene	ND	0.100									
Chrysene	ND	0.100									
Benzo(b)fluoranthene	ND	0.100									
Benzo(k)fluoranthene	ND	0.100									
Benzo(a)pyrene	ND	0.100									
Indeno(1,2,3-cd)pyrene	ND	0.100									
Dibenz(a,h)anthracene	ND	0.100									
Benzo(g,h,i)perylene	ND	0.100									
Surr: 2-Fluorobiphenyl	1.66		2.000		82.9	23.9	122				
Surr: Terphenyl-d14	1.84		2.000		92.1	33.4	135				

Sample ID	LCS-11433	SampType:	LCS	Units:	µg/L	Prep Date:	7/27/2015	RunNo:	23847		
Client ID:	LCSW	Batch ID:	11433	Analysis Date:	7/28/2015	SeqNo:	451959				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	2.41	0.100	4.000	0	60.2	26.7	106				
2-Methylnaphthalene	2.73	0.100	4.000	0	68.2	35.4	110				
1-Methylnaphthalene	2.43	0.100	4.000	0	60.8	37.5	116				
Acenaphthylene	2.80	0.100	4.000	0	70.1	39.2	114				
Acenaphthene	2.76	0.100	4.000	0	69.1	37	113				
Fluorene	2.86	0.100	4.000	0	71.5	40.3	117				



Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID	<b>LCS-11433</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/27/2015</b>	RunNo:	<b>23847</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>11433</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>451959</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	2.68	0.100	4.000	0	67.0	35.1	118				
Anthracene	2.89	0.100	4.000	0	72.4	45.4	115				
Fluoranthene	2.93	0.100	4.000	0	73.2	47.1	123				
Pyrene	2.84	0.100	4.000	0	71.0	47.6	123				
Benz(a)anthracene	3.20	0.100	4.000	0	80.0	48.7	126				
Chrysene	2.81	0.100	4.000	0	70.3	45.1	114				
Benzo(b)fluoranthene	4.17	0.100	4.000	0	104	52.2	126				
Benzo(k)fluoranthene	2.97	0.100	4.000	0	74.4	45.5	121				
Benzo(a)pyrene	3.36	0.100	4.000	0	84.0	38.4	121				
Indeno(1,2,3-cd)pyrene	3.15	0.100	4.000	0	78.8	23.9	143				
Dibenz(a,h)anthracene	3.65	0.100	4.000	0	91.3	24.9	141				
Benzo(g,h,i)perylene	2.91	0.100	4.000	0	72.8	35.9	139				
Surr: 2-Fluorobiphenyl	1.52		2.000		75.9	23.9	122				
Surr: Terphenyl-d14	1.76		2.000		88.0	33.4	135				

Sample ID	<b>LCS-D-11433</b>	SampType:	<b>LCS-D</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/27/2015</b>	RunNo:	<b>23847</b>		
Client ID:	<b>LCSW02</b>	Batch ID:	<b>11433</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>451960</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	2.52	0.100	4.000	0	63.0	26.7	106	2.410	4.41	30	
2-Methylnaphthalene	2.84	0.100	4.000	0	71.0	35.4	110	2.727	4.11	30	
1-Methylnaphthalene	2.84	0.100	4.000	0	71.1	37.5	116	2.431	15.7	30	
Acenaphthylene	2.97	0.100	4.000	0	74.3	39.2	114	2.804	5.87	30	
Acenaphthene	2.92	0.100	4.000	0	72.9	37	113	2.763	5.37	30	
Fluorene	2.98	0.100	4.000	0	74.6	40.3	117	2.858	4.25	30	
Phenanthrene	2.77	0.100	4.000	0	69.1	35.1	118	2.682	3.06	30	
Anthracene	3.05	0.100	4.000	0	76.3	45.4	115	2.895	5.27	30	
Fluoranthene	3.05	0.100	4.000	0	76.2	47.1	123	2.927	4.09	30	
Pyrene	2.96	0.100	4.000	0	74.0	47.6	123	2.839	4.15	30	
Benz(a)anthracene	3.34	0.100	4.000	0	83.6	48.7	126	3.199	4.40	30	
Chrysene	3.25	0.100	4.000	0	81.2	45.1	114	2.810	14.4	30	

**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID	LCSD-11433	SampType:	LCSD	Units:	µg/L	Prep Date:	7/27/2015	RunNo:	23847		
Client ID:	LCSW02	Batch ID:	11433	Analysis Date:	7/28/2015	SeqNo:	451960				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	4.29	0.100	4.000	0	107	52.2	126	4.174	2.65	30	
Benzo(k)fluoranthene	3.19	0.100	4.000	0	79.8	45.5	121	2.974	7.00	30	
Benzo(a)pyrene	3.58	0.100	4.000	0	89.4	38.4	121	3.360	6.22	30	
Indeno(1,2,3-cd)pyrene	3.32	0.100	4.000	0	83.1	23.9	143	3.153	5.23	30	
Dibenz(a,h)anthracene	3.86	0.100	4.000	0	96.5	24.9	141	3.653	5.55	30	
Benzo(g,h,i)perylene	3.02	0.100	4.000	0	75.4	35.9	139	2.912	3.49	30	
Surr: 2-Fluorobiphenyl	1.58		2.000		78.8	23.9	122		0	0	
Surr: Terphenyl-d14	1.82		2.000		90.9	33.4	135		0	0	



**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID	<b>LCS1-11432</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/27/2015</b>	RunNo:	<b>23844</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>11432</b>			Analysis Date:	<b>7/27/2015</b>	SeqNo:	<b>451859</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.67	0.200	2.000	0	83.6	38.2	129				
Aroclor 1260	2.25	0.200	2.000	0	113	41.2	136				
Surr: Decachlorobiphenyl	547		400.0		137	23.1	172				
Surr: Tetrachloro-m-xylene	283		400.0		70.7	10	125				

Sample ID	<b>LCS1D-11432</b>	SampType:	<b>LCS D</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/27/2015</b>	RunNo:	<b>23844</b>		
Client ID:	<b>LCSW02</b>	Batch ID:	<b>11432</b>			Analysis Date:	<b>7/27/2015</b>	SeqNo:	<b>451860</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	1.96	0.200	2.000	0	97.9	38.2	129	1.671	15.8	20	
Aroclor 1260	2.63	0.200	2.000	0	132	41.2	136	2.252	15.6	20	
Surr: Decachlorobiphenyl	650		400.0		162	23.1	172		0		
Surr: Tetrachloro-m-xylene	303		400.0		75.9	10	125		0		

Sample ID	<b>MB-11432</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/27/2015</b>	RunNo:	<b>23844</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>11432</b>			Analysis Date:	<b>7/27/2015</b>	SeqNo:	<b>451861</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.200									
Aroclor 1221	ND	0.200									
Aroclor 1232	ND	0.200									
Aroclor 1242	ND	0.200									
Aroclor 1248	ND	0.200									
Aroclor 1254	ND	0.200									
Aroclor 1260	ND	0.200									
Aroclor 1262	ND	0.200									
Aroclor 1268	ND	0.200									
Total PCBs	ND	0.200									
Surr: Decachlorobiphenyl	605		400.0		151	23.1	172				
Surr: Tetrachloro-m-xylene	265		400.0		66.2	10	125				



Date: 7/28/2015

**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Polychlorinated Biphenyls (PCB) by EPA 8082**

Sample ID <b>MB-11432</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/27/2015</b>	RunNo: <b>23844</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>11432</b>		Analysis Date: <b>7/27/2015</b>	SeqNo: <b>451861</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual



Date: 7/28/2015

**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Gasoline by NWTPH-Gx**

Sample ID	<b>LCS-R23865</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23865</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>R23865</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452057</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	572	50.0	500.0	0	114	65	135				
Surr: Toluene-d8	26.0		25.00		104	65	135				
Surr: 4-Bromofluorobenzene	25.6		25.00		102	65	135				

Sample ID	<b>MB-R23865</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23865</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R23865</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452059</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	ND	50.0									
Surr: Toluene-d8	25.6		25.00		102	65	135				
Surr: 4-Bromofluorobenzene	25.2		25.00		101	65	135				

Sample ID	<b>LCS-D-R23865</b>	SampType:	<b>LCS-D</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23865</b>		
Client ID:	<b>LCSW02</b>	Batch ID:	<b>R23865</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452060</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Gasoline	563	50.0	500.0	0	113	65	135	572.3	1.57	20	
Surr: Toluene-d8	25.7		25.00		103	65	135		0	0	
Surr: 4-Bromofluorobenzene	25.5		25.00		102	65	135		0	0	



Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>LCS- R23863</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23863</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>R23863</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452037</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Dichlorodifluoromethane (CFC-12)	21.0	1.00	20.00	0	105	43	136				
Chloromethane	19.5	1.00	20.00	0	97.3	43.9	139				
Vinyl chloride	20.8	0.200	20.00	0	104	53.6	139				
Bromomethane	23.9	1.00	20.00	0	120	42.5	152				
Trichlorofluoromethane (CFC-11)	22.3	1.00	20.00	0	112	63.7	133				
Chloroethane	19.7	1.00	20.00	0	98.6	53	141				
1,1-Dichloroethene	18.0	1.00	20.00	0	89.8	65.6	136				
Methylene chloride	18.3	1.00	20.00	0	91.7	67.1	131				
trans-1,2-Dichloroethene	21.5	1.00	20.00	0	107	71.7	129				
Methyl tert-butyl ether (MTBE)	29.0	1.00	20.00	0	145	67.7	131				S
1,1-Dichloroethane	22.2	1.00	20.00	0	111	67.9	134				
2,2-Dichloropropane	29.7	2.00	20.00	0	149	33.7	152				
cis-1,2-Dichloroethene	21.3	1.00	20.00	0	106	71.1	130				
Chloroform	21.3	1.00	20.00	0	107	66.3	131				
1,1,1-Trichloroethane (TCA)	23.0	1.00	20.00	0	115	71	131				
1,1-Dichloropropene	20.7	1.00	20.00	0	103	74.5	126				
Carbon tetrachloride	24.8	1.00	20.00	0	124	66.2	134				
1,2-Dichloroethane (EDC)	20.2	1.00	20.00	0	101	68.8	123				
Benzene	20.6	1.00	20.00	0	103	69.3	132				
Trichloroethene (TCE)	21.8	0.500	20.00	0	109	65.2	136				
1,2-Dichloropropane	22.1	1.00	20.00	0	110	70.5	130				
Bromodichloromethane	19.4	1.00	20.00	0	96.9	67.2	137				
Dibromomethane	23.0	1.00	20.00	0	115	75.5	126				
cis-1,3-Dichloropropene	23.3	1.00	20.00	0	117	62.6	137				
Toluene	20.8	1.00	20.00	0	104	61.3	145				
trans-1,3-Dichloropropene	23.8	1.00	20.00	0	119	58.5	142				
1,1,2-Trichloroethane	21.1	1.00	20.00	0	105	71.7	131				
1,3-Dichloropropane	22.0	1.00	20.00	0	110	73.5	127				
Tetrachloroethene (PCE)	21.4	1.00	20.00	0	107	47.5	147				
Dibromochloromethane	21.4	1.00	20.00	0	107	67.2	134				
1,2-Dibromoethane (EDB)	22.8	0.0600	20.00	0	114	73.6	125				



Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	LCS- R23863	SampType:	LCS	Units:	µg/L	Prep Date:	7/28/2015	RunNo:	23863		
Client ID:	LCSW	Batch ID:	R23863	Analysis Date:	7/28/2015	SeqNo:	452037				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	20.9	1.00	20.00	0	104	73.9	126				
1,1,1,2-Tetrachloroethane	22.5	1.00	20.00	0	112	76.8	124				
Ethylbenzene	20.8	1.00	20.00	0	104	72	130				
m,p-Xylene	41.0	1.00	40.00	0	103	70.3	134				
o-Xylene	20.7	1.00	20.00	0	104	72.1	131				
Styrene	22.0	1.00	20.00	0	110	64.3	140				
Isopropylbenzene	21.8	1.00	20.00	0	109	73.9	128				
Bromoform	21.5	1.00	20.00	0	108	63.8	135				
1,1,2,2-Tetrachloroethane	20.9	1.00	20.00	0	105	62.9	132				
n-Propylbenzene	22.0	1.00	20.00	0	110	74.5	127				
Bromobenzene	20.8	1.00	20.00	0	104	71	131				
1,3,5-Trimethylbenzene	21.9	1.00	20.00	0	109	73.1	128				
2-Chlorotoluene	21.2	1.00	20.00	0	106	70.8	130				
4-Chlorotoluene	21.5	1.00	20.00	0	108	70.1	131				
tert-Butylbenzene	21.4	1.00	20.00	0	107	68.2	131				
1,2,3-Trichloropropane	20.1	1.00	20.00	0	101	67.7	131				
1,2,4-Trichlorobenzene	21.7	2.00	20.00	0	109	67.6	129				
sec-Butylbenzene	22.1	1.00	20.00	0	110	72	129				
4-Isopropyltoluene	22.1	1.00	20.00	0	111	69.2	130				
1,3-Dichlorobenzene	20.4	1.00	20.00	0	102	72.4	129				
1,4-Dichlorobenzene	20.0	1.00	20.00	0	100	70.6	128				
n-Butylbenzene	22.0	1.00	20.00	0	110	73.8	127				
1,2-Dichlorobenzene	20.2	1.00	20.00	0	101	74.2	129				
1,2-Dibromo-3-chloropropane	21.3	1.00	20.00	0	106	63.1	136				
1,2,4-Trimethylbenzene	21.6	1.00	20.00	0	108	73.4	127				
Hexachlorobutadiene	21.9	4.00	20.00	0	110	58.6	138				
Naphthalene	21.8	1.00	20.00	0	109	45.2	144				
1,2,3-Trichlorobenzene	21.5	4.00	20.00	0	108	50.2	139				
Surr: Dibromofluoromethane	26.2		25.00		105	77.4	147				
Surr: Toluene-d8	25.3		25.00		101	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	25.2		25.00		101	64.2	128				



**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>LCS- R23863</b>	SampType:	<b>LCS</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23863</b>		
Client ID:	<b>LCSW</b>	Batch ID:	<b>R23863</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452037</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

**NOTES:**

S - Outlying spike recovery observed for tert-Butyl Methyl Ether (high bias). Sample is non-detect, no further action required.

Sample ID	<b>LCS-D-R23863</b>	SampType:	<b>LCS-D</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23863</b>		
Client ID:	<b>LCSW02</b>	Batch ID:	<b>R23863</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452039</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	19.7	1.00	20.00	0	98.3	43	136	21.04	6.80	20	
Chloromethane	17.2	1.00	20.00	0	86.2	43.9	139	19.45	12.1	20	
Vinyl chloride	19.9	0.200	20.00	0	99.5	53.6	139	20.85	4.62	20	
Bromomethane	26.3	1.00	20.00	0	132	42.5	152	23.94	9.58	20	
Trichlorofluoromethane (CFC-11)	21.8	1.00	20.00	0	109	63.7	133	22.33	2.17	20	
Chloroethane	19.5	1.00	20.00	0	97.5	53	141	19.72	1.12	20	
1,1-Dichloroethene	15.7	1.00	20.00	0	78.5	65.6	136	17.96	13.5	20	
Methylene chloride	17.9	1.00	20.00	0	89.7	67.1	131	18.34	2.23	20	
trans-1,2-Dichloroethene	21.4	1.00	20.00	0	107	71.7	129	21.50	0.297	20	
Methyl tert-butyl ether (MTBE)	56.2	1.00	20.00	0	281	67.7	131	29.01	63.8	20	RS
1,1-Dichloroethane	22.4	1.00	20.00	0	112	67.9	134	22.23	0.805	20	
2,2-Dichloropropane	80.5	2.00	20.00	0	403	33.7	152	29.71	92.2	20	RS
cis-1,2-Dichloroethene	21.4	1.00	20.00	0	107	71.1	130	21.29	0.575	20	
Chloroform	21.2	1.00	20.00	0	106	66.3	131	21.32	0.596	20	
1,1,1-Trichloroethane (TCA)	25.5	1.00	20.00	0	127	71	131	22.96	10.3	20	
1,1-Dichloropropene	20.4	1.00	20.00	0	102	74.5	126	20.68	1.25	20	
Carbon tetrachloride	29.1	1.00	20.00	0	145	66.2	134	24.78	15.9	20	S
1,2-Dichloroethane (EDC)	20.7	1.00	20.00	0	104	68.8	123	20.23	2.43	20	
Benzene	20.6	1.00	20.00	0	103	69.3	132	20.64	0.141	20	
Trichloroethene (TCE)	21.1	0.500	20.00	0	106	65.2	136	21.76	3.01	20	
1,2-Dichloropropane	22.5	1.00	20.00	0	113	70.5	130	22.06	2.18	20	
Bromodichloromethane	19.3	1.00	20.00	0	96.5	74.6	127	19.38	0.433	20	
Dibromomethane	23.8	1.00	20.00	0	119	75.5	126	22.99	3.50	20	
cis-1,3-Dichloropropene	27.4	1.00	20.00	0	137	62.6	137	23.31	16.2	20	S
Toluene	21.0	1.00	20.00	0	105	61.3	145	20.83	0.708	20	

Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	LCSD-R23863	SampType:	LCSD	Units:	µg/L	Prep Date:	7/28/2015	RunNo:	23863		
Client ID:	LCSW02	Batch ID:	R23863	Analysis Date:	7/28/2015	SeqNo:	452039				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-Dichloropropene	31.9	1.00	20.00	0	160	58.5	142	23.79	29.3	20	RS
1,1,2-Trichloroethane	21.7	1.00	20.00	0	108	71.7	131	21.06	2.98	20	
1,3-Dichloropropane	23.2	1.00	20.00	0	116	73.5	127	22.00	5.40	20	
Tetrachloroethene (PCE)	21.6	1.00	20.00	0	108	47.5	147	21.41	0.778	20	
Dibromochloromethane	22.4	1.00	20.00	0	112	67.2	134	21.36	4.82	20	
1,2-Dibromoethane (EDB)	25.6	0.0600	20.00	0	128	73.6	125	22.85	11.4	20	S
Chlorobenzene	21.0	1.00	20.00	0	105	73.9	126	20.88	0.664	20	
1,1,1,2-Tetrachloroethane	25.2	1.00	20.00	0	126	76.8	124	22.46	11.4	20	S
Ethylbenzene	20.8	1.00	20.00	0	104	72	130	20.83	0.0384	20	
m,p-Xylene	41.3	1.00	40.00	0	103	70.3	134	41.04	0.556	20	
o-Xylene	20.6	1.00	20.00	0	103	72.1	131	20.74	0.433	20	
Styrene	22.1	1.00	20.00	0	111	64.3	140	22.02	0.516	20	
Isopropylbenzene	21.8	1.00	20.00	0	109	73.9	128	21.77	0.0735	20	
Bromoform	23.4	1.00	20.00	0	117	63.8	135	21.53	8.51	20	
1,1,1,2,2-Tetrachloroethane	22.2	1.00	20.00	0	111	62.9	132	20.95	5.82	20	
n-Propylbenzene	21.8	1.00	20.00	0	109	74.5	127	21.95	0.859	20	
Bromobenzene	20.8	1.00	20.00	0	104	71	131	20.84	0.405	20	
1,3,5-Trimethylbenzene	21.5	1.00	20.00	0	108	73.1	128	21.86	1.57	20	
2-Chlorotoluene	21.2	1.00	20.00	0	106	70.8	130	21.25	0.0848	20	
4-Chlorotoluene	21.5	1.00	20.00	0	108	70.1	131	21.54	0.140	20	
tert-Butylbenzene	21.1	1.00	20.00	0	106	68.2	131	21.41	1.26	20	
1,2,3-Trichloropropane	20.9	1.00	20.00	0	105	67.7	131	20.11	4.04	20	
1,2,4-Trichlorobenzene	22.0	2.00	20.00	0	110	72.4	127	21.71	1.42	20	
sec-Butylbenzene	21.9	1.00	20.00	0	110	72	129	22.09	0.776	20	
4-Isopropyltoluene	22.1	1.00	20.00	0	110	69.2	130	22.11	0.178	20	
1,3-Dichlorobenzene	20.5	1.00	20.00	0	102	72.4	129	20.42	0.209	20	
1,4-Dichlorobenzene	20.1	1.00	20.00	0	101	70.6	128	20.01	0.493	20	
n-Butylbenzene	22.0	1.00	20.00	0	110	73.8	127	21.99	0.130	20	
1,2-Dichlorobenzene	20.6	1.00	20.00	0	103	74.2	129	20.24	1.70	20	
1,2-Dibromo-3-chloropropane	22.2	1.00	20.00	0	111	63.1	136	21.29	4.38	20	
1,2,4-Trimethylbenzene	21.5	1.00	20.00	0	107	73.4	127	21.58	0.375	20	



**Work Order:** 1507266  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID <b>LCSD-R23863</b>	SampType: <b>LCSD</b>	Units: <b>µg/L</b>	Prep Date: <b>7/28/2015</b>	RunNo: <b>23863</b>							
Client ID: <b>LCSW02</b>	Batch ID: <b>R23863</b>		Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452039</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachlorobutadiene	21.7	4.00	20.00	0	109	58.6	138	21.91	0.742	20	
Naphthalene	22.6	1.00	20.00	0	113	45.2	144	21.83	3.45	20	
1,2,3-Trichlorobenzene	22.2	4.00	20.00	0	111	50.2	139	21.51	3.32	20	
Surr: Dibromofluoromethane	27.1		25.00		108	77.4	147		0		
Surr: Toluene-d8	25.5		25.00		102	40.1	139		0		
Surr: 1-Bromo-4-fluorobenzene	24.9		25.00		99.8	64.2	128		0		

**NOTES:**

SR - Outlying spike recovery and high RPD observed. The method is in control as indicated by the LCS and MB.

Sample ID <b>MB-R23863</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>7/28/2015</b>	RunNo: <b>23863</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R23863</b>		Analysis Date: <b>7/28/2015</b>	SeqNo: <b>452040</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane (CFC-12)	ND	1.00									
Chloromethane	ND	1.00									
Vinyl chloride	ND	0.200									
Bromomethane	ND	1.00									
Trichlorofluoromethane (CFC-11)	ND	1.00									
Chloroethane	ND	1.00									
1,1-Dichloroethene	ND	1.00									
Methylene chloride	ND	1.00									
trans-1,2-Dichloroethene	ND	1.00									
Methyl tert-butyl ether (MTBE)	ND	1.00									
1,1-Dichloroethane	ND	1.00									
2,2-Dichloropropane	ND	2.00									
cis-1,2-Dichloroethene	ND	1.00									
Chloroform	ND	1.00									
1,1,1-Trichloroethane (TCA)	ND	1.00									
1,1-Dichloropropene	ND	1.00									
Carbon tetrachloride	ND	1.00									
1,2-Dichloroethane (EDC)	ND	1.00									
Benzene	ND	1.00									



Date: 7/28/2015

Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>MB-R23863</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23863</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R23863</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452040</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Trichloroethene (TCE)	ND	0.500									
1,2-Dichloropropane	ND	1.00									
Bromodichloromethane	ND	1.00									
Dibromomethane	ND	1.00									
cis-1,3-Dichloropropene	ND	1.00									
Toluene	ND	1.00									
trans-1,3-Dichloropropene	ND	1.00									
1,1,2-Trichloroethane	ND	1.00									
1,3-Dichloropropane	ND	1.00									
Tetrachloroethene (PCE)	ND	1.00									
Dibromochloromethane	ND	1.00									
1,2-Dibromoethane (EDB)	ND	0.0600									
Chlorobenzene	ND	1.00									
1,1,1,2-Tetrachloroethane	ND	1.00									
Ethylbenzene	ND	1.00									
m,p-Xylene	ND	1.00									
o-Xylene	ND	1.00									
Styrene	ND	1.00									
Isopropylbenzene	ND	1.00									
Bromoform	ND	1.00									
1,1,1,2,2-Tetrachloroethane	ND	1.00									
n-Propylbenzene	ND	1.00									
Bromobenzene	ND	1.00									
1,3,5-Trimethylbenzene	ND	1.00									
2-Chlorotoluene	ND	1.00									
4-Chlorotoluene	ND	1.00									
tert-Butylbenzene	ND	1.00									
1,2,3-Trichloropropane	ND	1.00									
1,2,4-Trichlorobenzene	ND	2.00									
sec-Butylbenzene	ND	1.00									
4-Isopropyltoluene	ND	1.00									



Date: 7/28/2015

Work Order: 1507266  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Volatile Organic Compounds by EPA Method 8260**

Sample ID	<b>MB-R23863</b>	SampType:	<b>MBLK</b>	Units:	<b>µg/L</b>	Prep Date:	<b>7/28/2015</b>	RunNo:	<b>23863</b>		
Client ID:	<b>MBLKW</b>	Batch ID:	<b>R23863</b>			Analysis Date:	<b>7/28/2015</b>	SeqNo:	<b>452040</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

1,3-Dichlorobenzene	ND	1.00									
1,4-Dichlorobenzene	ND	1.00									
n-Butylbenzene	ND	1.00									
1,2-Dichlorobenzene	ND	1.00									
1,2-Dibromo-3-chloropropane	ND	1.00									
1,2,4-Trimethylbenzene	ND	1.00									
Hexachlorobutadiene	ND	4.00									
Naphthalene	ND	1.00									
1,2,3-Trichlorobenzene	ND	4.00									
Surr: Dibromofluoromethane	24.2		25.00		96.8	77.4	147				
Surr: Toluene-d8	24.6		25.00		98.4	40.1	139				
Surr: 1-Bromo-4-fluorobenzene	24.8		25.00		99.2	64.2	128				



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1507266</b>
Logged by: <b>Erica Silva</b>	Date Received: <b>7/27/2015 11:49:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	6.6
Sample	8.2

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# Fremont Analytical

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 7/27/15  
Page: 1 of 1

Laboratory Project No (Internal): 150721010

Client: G-Logics  
Address: 402nd Ave SE  
City, State, zip: Issaquah  
Tel: 425-391-6824  
Fax:

Project Name: Gilman Square  
Project No: 01-0888-J  
Location: Issaquah  
Reports To (PM): SH  
Email: Stuart@g-logics

\*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, D = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water, SW = Storm Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	Analytes													Comments/Depth	
				VOC (EPA 8260)	GV/RTX	BTX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClD)	Diesel/Heavy Oil Range Organics (DX)	SEM VOL (EPA 8270)	PAH (EPA 8270 - SIM)	PCBs (EPA 8082)	Metals** (6020 / 200.8)	Total (T)	Dissolved (D)	Anions (A)**		EDC (8011)
1 TANKS-WATER	7/17	000	WW	X				X	X	X	X	X	X	X	X	X	X	Dr. G., VDL @ ASAP* OHus 24-hr
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

\*\*Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate/Nitrite  
Special Remarks: Turn-around times for samples received after 4:00pm will begin on the following business day.

Received: 7/27/15 11:49  
Date/Time: 7/27/15 11:49  
Date/Time: 7/27/15 11:49

Refrigerated  
X

Distribution: White - Lab, Yellow - File, Pink - Originator

www.fremontanalytical.com



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman Square**

**Lab ID: 1507326**

August 03, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 2 sample(s) on 7/31/2015 for the analyses presented in the following report.

***Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***

***Sample Moisture (Percent Moisture)***

***Total Metals by EPA Method 6020***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway  
President



---

**CLIENT:** G-Logics  
**Project:** Gilman Square  
**Lab Order:** 1507326

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1507326-001	F-5-6.5'	07/31/2015 9:25 AM	07/31/2015 10:20 AM
1507326-002	ESW-5-6'	07/31/2015 9:30 AM	07/31/2015 10:20 AM



## Case Narrative

WO#: 1507326

Date: 8/3/2015

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**CLIENT:** G-Logics  
**Project:** Gilman Square

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### I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

### II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

### III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

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## Qualifiers & Acronyms

WO#: 1507326

Date Reported: 8/3/2015

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### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

### Acronyms:

- %Rec - Percent Recovery
  - CCB - Continued Calibration Blank
  - CCV - Continued Calibration Verification
  - DF - Dilution Factor
  - HEM - Hexane Extractable Material
  - ICV - Initial Calibration Verification
  - LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
  - MB or MBLANK - Method Blank
  - MDL - Method Detection Limit
  - MS/MSD - Matrix Spike / Matrix Spike Duplicate
  - PDS - Post Digestion Spike
  - Ref Val - Reference Value
  - RL - Reporting Limit
  - RPD - Relative Percent Difference
  - SD - Serial Dilution
  - SGT - Silica Gel Treatment
  - SPK - Spike
  - Surr - Surrogate
-



# Analytical Report

WO#: 1507326  
Date Reported: 8/3/2015

**Client:** G-Logics  
**Project:** Gilman Square  
**Lab ID:** 1507326-001  
**Client Sample ID:** F-5-6.5'

**Collection Date:** 7/31/2015 9:25:00 AM

**Matrix:** Soil

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11475      Analyst: NG

Naphthalene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
2-Methylnaphthalene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
1-Methylnaphthalene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Acenaphthylene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Acenaphthene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Fluorene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Phenanthrene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Anthracene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Fluoranthene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Pyrene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Benz(a)anthracene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Chrysene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Benzo(b)fluoranthene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Benzo(k)fluoranthene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Benzo(a)pyrene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Indeno(1,2,3-cd)pyrene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Dibenz(a,h)anthracene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Benzo(g,h,i)perylene	ND	62.9		µg/Kg-dry	1	7/31/2015 5:52:00 PM
Surr: 2-Fluorobiphenyl	105	35.3-142		%REC	1	7/31/2015 5:52:00 PM
Surr: Terphenyl-d14 (surr)	116	48.8-157		%REC	1	7/31/2015 5:52:00 PM

**Total Metals by EPA Method 6020**

Batch ID: 11472      Analyst: TN

Lead	1.99	0.200		mg/Kg-dry	1	7/31/2015 2:42:51 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R23932      Analyst: CG

Percent Moisture	22.6	0.500		wt%	1	7/31/2015 12:52:39 PM
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# Analytical Report

WO#: 1507326  
Date Reported: 8/3/2015

**Client:** G-Logics

**Collection Date:** 7/31/2015 9:30:00 AM

**Project:** Gilman Square

**Lab ID:** 1507326-002

**Matrix:** Soil

**Client Sample ID:** ESW-5-6'

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11475

Analyst: NG

Naphthalene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
2-Methylnaphthalene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
1-Methylnaphthalene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Acenaphthylene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Acenaphthene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Fluorene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Phenanthrene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Anthracene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Fluoranthene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Pyrene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Benz(a)anthracene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Chrysene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Benzo(b)fluoranthene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Benzo(k)fluoranthene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Benzo(a)pyrene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Indeno(1,2,3-cd)pyrene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Dibenz(a,h)anthracene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Benzo(g,h,i)perylene	ND	61.1		µg/Kg-dry	1	7/31/2015 6:53:00 PM
Surr: 2-Fluorobiphenyl	92.7	35.3-142		%REC	1	7/31/2015 6:53:00 PM
Surr: Terphenyl-d14 (surr)	104	48.8-157		%REC	1	7/31/2015 6:53:00 PM

**Total Metals by EPA Method 6020**

Batch ID: 11472

Analyst: TN

Lead	8.88	0.184		mg/Kg-dry	1	7/31/2015 3:11:06 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R23932

Analyst: CG

Percent Moisture	20.5	0.500		wt%	1	7/31/2015 12:52:39 PM
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Date: 8/3/2015

**Work Order:** 1507326  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>MB-11472</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23942</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>11472</b>	Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453388</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID: <b>LCS-11472</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23942</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11472</b>	Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453389</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 25.8 0.200 25.00 0 103 80 120

Sample ID: <b>1507326-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23942</b>							
Client ID: <b>F-5-6.5'</b>	Batch ID: <b>11472</b>	Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453391</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 2.22 0.199 1.992 11.0 20

Sample ID: <b>1507326-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23942</b>							
Client ID: <b>F-5-6.5'</b>	Batch ID: <b>11472</b>	Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453393</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 27.6 0.199 24.83 1.992 103 75 125

Sample ID: <b>1507326-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23942</b>							
Client ID: <b>F-5-6.5'</b>	Batch ID: <b>11472</b>	Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453394</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 28.3 0.199 24.83 1.992 106 75 125 27.63 2.32 20



Date: 8/3/2015

Work Order: 1507326  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>1507326-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23952</b>							
Client ID: <b>F-5-6.5'</b>	Batch ID: <b>11475</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453594</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	62.7						0		30	
2-Methylnaphthalene	ND	62.7						0		30	
1-Methylnaphthalene	ND	62.7						0		30	
Acenaphthylene	ND	62.7						0		30	
Acenaphthene	ND	62.7						0		30	
Fluorene	ND	62.7						0		30	
Phenanthrene	ND	62.7						0		30	
Anthracene	ND	62.7						0		30	
Fluoranthene	ND	62.7						0		30	
Pyrene	ND	62.7						0		30	
Benz(a)anthracene	ND	62.7						0		30	
Chrysene	ND	62.7						0		30	
Benzo(b)fluoranthene	ND	62.7						0		30	
Benzo(k)fluoranthene	ND	62.7						0		30	
Benzo(a)pyrene	ND	62.7						0		30	
Indeno(1,2,3-cd)pyrene	ND	62.7						0		30	
Dibenz(a,h)anthracene	ND	62.7						0		30	
Benzo(g,h,i)perylene	ND	62.7						0		30	
Surr: 2-Fluorobiphenyl	477		626.9		76.1	35.3	142		0		
Surr: Terphenyl-d14 (surr)	677		626.9		108	48.8	157		0		

Sample ID: <b>1507326-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23952</b>							
Client ID: <b>ESW-5-6'</b>	Batch ID: <b>11475</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453596</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	985	61.0	1,220	0	80.7	42.9	138				
2-Methylnaphthalene	1,150	61.0	1,220	0	94.5	42.8	151				
1-Methylnaphthalene	1,150	61.0	1,220	0	93.8	41.6	148				
Acenaphthylene	1,070	61.0	1,220	0	87.9	32.6	160				
Acenaphthene	1,050	61.0	1,220	0	86.2	46.3	142				
Fluorene	1,070	61.0	1,220	0	87.8	43.4	153				



Date: 8/3/2015

Work Order: 1507326  
 CLIENT: G-Logics  
 Project: Gilman Square

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>1507326-002AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23952</b>							
Client ID: <b>ESW-5-6'</b>	Batch ID: <b>11475</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453596</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	957	61.0	1,220	0	78.4	45.5	140				
Anthracene	1,070	61.0	1,220	0	87.7	32.6	160				
Fluoranthene	1,070	61.0	1,220	0	88.0	44.6	161				
Pyrene	1,050	61.0	1,220	0	86.0	48.3	158				
Benz(a)anthracene	1,110	61.0	1,220	0	90.8	57.5	169				
Chrysene	1,000	61.0	1,220	0	82.0	45.2	146				
Benzo(b)fluoranthene	1,350	61.0	1,220	0	110	42.2	168				
Benzo(k)fluoranthene	1,060	61.0	1,220	0	86.8	48	161				
Benzo(a)pyrene	1,140	61.0	1,220	0	93.3	34.4	179				
Indeno(1,2,3-cd)pyrene	1,070	61.0	1,220	0	87.7	41.1	165				
Dibenz(a,h)anthracene	1,290	61.0	1,220	0	106	38.1	166				
Benzo(g,h,i)perylene	908	61.0	1,220	0	74.4	45.6	157				
Surr: 2-Fluorobiphenyl	530		610.2		86.9	35.3	142				
Surr: Terphenyl-d14 (surr)	664		610.2		109	48.8	157				

Sample ID: <b>LCS-11475</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23952</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11475</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453598</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	842	50.0	1,000	0	84.2	61.6	125				
2-Methylnaphthalene	921	50.0	1,000	0	92.1	58.2	129				
1-Methylnaphthalene	815	50.0	1,000	0	81.5	56.4	132				
Acenaphthylene	842	50.0	1,000	0	84.2	52.2	133				
Acenaphthene	828	50.0	1,000	0	82.8	54	131				
Fluorene	847	50.0	1,000	0	84.7	53.4	131				
Phenanthrene	734	50.0	1,000	0	73.4	55.6	128				
Anthracene	827	50.0	1,000	0	82.7	51	132				
Fluoranthene	831	50.0	1,000	0	83.1	48.4	134				
Pyrene	817	50.0	1,000	0	81.7	48.6	135				
Benz(a)anthracene	875	50.0	1,000	0	87.5	41.9	136				
Chrysene	905	50.0	1,000	0	90.5	51.4	135				





Date: 8/3/2015

**Work Order:** 1507326  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>MB-11475</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23952</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>11475</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453599</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	859		1,000		85.9	35.3	142				
Surr: Terphenyl-d14 (surr)	961		1,000		96.1	48.8	157				



Date: 8/3/2015

**Work Order:** 1507326  
**CLIENT:** G-Logics  
**Project:** Gilman Square

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1507326-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>7/31/2015</b>	RunNo: <b>23932</b>							
Client ID: <b>F-5-6.5'</b>	Batch ID: <b>R23932</b>		Analysis Date: <b>7/31/2015</b>	SeqNo: <b>453246</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	23.6	0.500						22.56	4.38	20	



## Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1507326</b>
Logged by: <b>Erica Silva</b>	Date Received: <b>7/31/2015 10:20:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler?  
(Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA

### Samples received straight from field

8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

### Item Information

Item #	Temp °C
Cooler	18.5
Sample	19.9

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C



# Fremont Analytical

## Chain of Custody Record

3600 Fremont Ave N.  
Seattle, WA 98103

Tel: 206-352-3790  
Fax: 206-352-7178

Date: 7/31/15  
Page: 1 of 1

Client: G-Labors

Project Name: GILMAN SQUARE

Address: \_\_\_\_\_

Location: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Collected by: \_\_\_\_\_

Project No: \_\_\_\_\_

Laboratory Project No (Internal): 5073216

Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, WW = Waste Water

Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOC (EPA 8260)	GV/STEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HClO)	Chlorinated Oil Range Organics (CO)	SEMI-VOL (EPA 8210)	PAH (EPA 8210 - SIM)	PCB (EPA 8092)	Metals ** (6050 / 200.8)	Total (T) / Dissolved (D)	Asbestos (C)***	EDR (8011)	Comments/Depth
1 F-5-6.5"	7/31/15	0925	S							X			X				
2 BW-5-6"	7/31/15	0935	S							X			X				
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Metals Analyze (Circle): METALS REPA 8 Priority Pollutants TAL (Inches) Ag Al Ar B Ba Pb Cd Cr Cu Fe Hg \* Mg Mn (nd) Na N Pb Sb Se Sr Si Tl U V Zn

Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide Iodide Phosphate Filtrate Nitrite-Nitrate

Special Remarks: \_\_\_\_\_

Return to Client  Disposal by Lab (A fee may be assessed, completion required, check label)

Relinquished  Date/Time: 7/31/15 1020

Received  Date/Time: 7/31/15 1020

Signature: [Signature]



3600 Fremont Ave. N.

Seattle, WA 98103

T: (206) 352-3790

F: (206) 352-7178

[info@fremontanalytical.com](mailto:info@fremontanalytical.com)

**G-Logics**

Stuart Hyde  
40 Second Ave. SE  
Issaquah, WA 98027

**RE: Gilman**

**Lab ID: 1508001**

August 04, 2015

**Attention Stuart Hyde:**

Fremont Analytical, Inc. received 1 sample(s) on 8/3/2015 for the analyses presented in the following report.

***Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)***

***Sample Moisture (Percent Moisture)***

***Total Metals by EPA Method 6020***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Ridgeway".

Mike Ridgeway  
President



---

**CLIENT:** G-Logics  
**Project:** Gilman  
**Lab Order:** 1508001

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
1508001-001	TP-5-SP-2	07/31/2015 3:00 PM	08/03/2015 8:30 AM



## Case Narrative

WO#: 1508001

Date: 8/4/2015

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**CLIENT:** G-Logics

**Project:** Gilman

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### I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

### II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

### III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

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## Qualifiers & Acronyms

WO#: 1508001

Date Reported: 8/4/2015

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### Qualifiers:

- \* - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below LOQ
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit

### Acronyms:

- %Rec - Percent Recovery
  - CCB - Continued Calibration Blank
  - CCV - Continued Calibration Verification
  - DF - Dilution Factor
  - HEM - Hexane Extractable Material
  - ICV - Initial Calibration Verification
  - LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
  - MB or MBLANK - Method Blank
  - MDL - Method Detection Limit
  - MS/MSD - Matrix Spike / Matrix Spike Duplicate
  - PDS - Post Digestion Spike
  - Ref Val - Reference Value
  - RL - Reporting Limit
  - RPD - Relative Percent Difference
  - SD - Serial Dilution
  - SGT - Silica Gel Treatment
  - SPK - Spike
  - Surr - Surrogate
-



# Analytical Report

WO#: 1508001  
Date Reported: 8/4/2015

**Client:** G-Logics

**Collection Date:** 7/31/2015 3:00:00 PM

**Project:** Gilman

**Lab ID:** 1508001-001

**Matrix:** Soil

**Client Sample ID:** TP-5-SP-2

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Batch ID: 11482

Analyst: DB

Naphthalene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
2-Methylnaphthalene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
1-Methylnaphthalene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Acenaphthylene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Acenaphthene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Fluorene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Phenanthrene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Anthracene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Fluoranthene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Pyrene	65.1	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Benz(a)anthracene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Chrysene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Benzo(b)fluoranthene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Benzo(k)fluoranthene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Benzo(a)pyrene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Indeno(1,2,3-cd)pyrene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Dibenz(a,h)anthracene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Benzo(g,h,i)perylene	ND	60.4		µg/Kg-dry	1	8/3/2015 1:47:00 PM
Surr: 2-Fluorobiphenyl	95.7	35.3-142		%REC	1	8/3/2015 1:47:00 PM
Surr: Terphenyl-d14 (surr)	94.9	48.8-157		%REC	1	8/3/2015 1:47:00 PM

**Total Metals by EPA Method 6020**

Batch ID: 11484

Analyst: TN

Lead	5.51	0.200		mg/Kg-dry	1	8/3/2015 5:50:01 PM
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**Sample Moisture (Percent Moisture)**

Batch ID: R23949

Analyst: CG

Percent Moisture	19.5	0.500		wt%	1	8/3/2015 9:15:51 AM
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Date: 8/4/2015

Work Order: 1508001  
 CLIENT: G-Logics  
 Project: Gilman

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>MB-11484</b>	SampType: <b>MBLK</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23993</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>11484</b>	Analysis Date: <b>8/3/2015</b>	SeqNo: <b>454153</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead ND 0.200

Sample ID: <b>LCS-11484</b>	SampType: <b>LCS</b>	Units: <b>mg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23993</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11484</b>	Analysis Date: <b>8/3/2015</b>	SeqNo: <b>454154</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 27.1 0.200 25.00 0 109 80 120

Sample ID: <b>1508001-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23993</b>							
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>11484</b>	Analysis Date: <b>8/3/2015</b>	SeqNo: <b>454156</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 3.00 0.200 5.505 59.0 20 R

**NOTES:**

R - High RPD indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).

Sample ID: <b>1508001-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23993</b>							
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>11484</b>	Analysis Date: <b>8/3/2015</b>	SeqNo: <b>454158</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 27.9 0.202 25.24 5.505 88.7 75 125

Sample ID: <b>1508001-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/Kg-dry</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23993</b>							
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>11484</b>	Analysis Date: <b>8/3/2015</b>	SeqNo: <b>454159</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead 28.3 0.200 25.04 5.505 91.1 75 125 27.88 1.54 20



Date: 8/4/2015

Work Order: 1508001  
 CLIENT: G-Logics  
 Project: Gilman

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>MB-11482</b>	SampType: <b>MBLK</b>	Units: <b>µg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23976</b>							
Client ID: <b>MBLKS</b>	Batch ID: <b>11482</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453810</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	ND	50.0									
2-Methylnaphthalene	ND	50.0									
1-Methylnaphthalene	ND	50.0									
Acenaphthylene	ND	50.0									
Acenaphthene	ND	50.0									
Fluorene	ND	50.0									
Phenanthrene	ND	50.0									
Anthracene	ND	50.0									
Fluoranthene	ND	50.0									
Pyrene	ND	50.0									
Benz(a)anthracene	ND	50.0									
Chrysene	ND	50.0									
Benzo(b)fluoranthene	ND	50.0									
Benzo(k)fluoranthene	ND	50.0									
Benzo(a)pyrene	ND	50.0									
Indeno(1,2,3-cd)pyrene	ND	50.0									
Dibenz(a,h)anthracene	ND	50.0									
Benzo(g,h,i)perylene	ND	50.0									
Surr: 2-Fluorobiphenyl	418		500.0		83.6	35.3	142				
Surr: Terphenyl-d14 (surr)	515		500.0		103	48.8	157				

Sample ID: <b>LCS-11482</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23976</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11482</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453808</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	794	50.0	1,000	0	79.4	61.6	125				
2-Methylnaphthalene	826	50.0	1,000	0	82.6	58.2	129				
1-Methylnaphthalene	821	50.0	1,000	0	82.1	56.4	132				
Acenaphthylene	789	50.0	1,000	0	78.9	52.2	133				
Acenaphthene	784	50.0	1,000	0	78.4	54	131				
Fluorene	773	50.0	1,000	0	77.3	53.4	131				



Date: 8/4/2015

Work Order: 1508001  
 CLIENT: G-Logics  
 Project: Gilman

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>LCS-11482</b>	SampType: <b>LCS</b>	Units: <b>µg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23976</b>							
Client ID: <b>LCSS</b>	Batch ID: <b>11482</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453808</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Phenanthrene	747	50.0	1,000	0	74.7	55.6	128				
Anthracene	780	50.0	1,000	0	78.0	51	132				
Fluoranthene	801	50.0	1,000	0	80.1	48.4	134				
Pyrene	781	50.0	1,000	0	78.1	48.6	135				
Benz(a)anthracene	767	50.0	1,000	0	76.7	41.9	136				
Chrysene	823	50.0	1,000	0	82.3	51.4	135				
Benzo(b)fluoranthene	981	50.0	1,000	0	98.1	39.7	137				
Benzo(k)fluoranthene	782	50.0	1,000	0	78.2	45.7	138				
Benzo(a)pyrene	861	50.0	1,000	0	86.1	40.9	141				
Indeno(1,2,3-cd)pyrene	744	50.0	1,000	0	74.4	41	140				
Dibenz(a,h)anthracene	899	50.0	1,000	0	89.9	37.6	140				
Benzo(g,h,i)perylene	636	50.0	1,000	0	63.6	45	134				
Surr: 2-Fluorobiphenyl	454		500.0		90.8	35.3	142				
Surr: Terphenyl-d14 (surr)	490		500.0		98.0	48.8	157				

Sample ID: <b>LCSD-11482</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23976</b>							
Client ID: <b>LCSS02</b>	Batch ID: <b>11482</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453811</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Naphthalene	910	50.0	1,000	0	91.0	61.6	125	794.4	13.5	30	
2-Methylnaphthalene	922	50.0	1,000	0	92.2	58.2	129	826.0	11.0	30	
1-Methylnaphthalene	921	50.0	1,000	0	92.1	56.4	132	821.3	11.5	30	
Acenaphthylene	921	50.0	1,000	0	92.1	52.2	133	789.3	15.4	30	
Acenaphthene	875	50.0	1,000	0	87.5	54	131	783.6	11.1	30	
Fluorene	862	50.0	1,000	0	86.2	53.4	131	772.8	10.9	30	
Phenanthrene	868	50.0	1,000	0	86.8	55.6	128	746.9	15.0	30	
Anthracene	853	50.0	1,000	0	85.3	51	132	780.1	8.95	30	
Fluoranthene	869	50.0	1,000	0	86.9	48.4	134	800.8	8.14	30	
Pyrene	844	50.0	1,000	0	84.4	48.6	135	780.7	7.78	30	
Benz(a)anthracene	825	50.0	1,000	0	82.5	41.9	136	766.9	7.35	30	
Chrysene	884	50.0	1,000	0	88.4	51.4	135	822.9	7.18	30	



Date: 8/4/2015

Work Order: 1508001  
 CLIENT: G-Logics  
 Project: Gilman

**QC SUMMARY REPORT**  
**Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)**

Sample ID: <b>LCSD-11482</b>	SampType: <b>LCSD</b>	Units: <b>µg/Kg</b>				Prep Date: <b>8/3/2015</b>			RunNo: <b>23976</b>		
Client ID: <b>LCSS02</b>	Batch ID: <b>11482</b>					Analysis Date: <b>8/3/2015</b>			SeqNo: <b>453811</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzo(b)fluoranthene	1,100	50.0	1,000	0	110	39.7	137	980.8	11.8	30	
Benzo(k)fluoranthene	763	50.0	1,000	0	76.3	45.7	138	782.3	2.55	30	
Benzo(a)pyrene	854	50.0	1,000	0	85.4	45.3	135	861.3	0.853	30	
Indeno(1,2,3-cd)pyrene	743	50.0	1,000	0	74.3	41	140	744.0	0.136	30	
Dibenz(a,h)anthracene	879	50.0	1,000	0	87.9	37.6	140	899.3	2.32	30	
Benzo(g,h,i)perylene	633	50.0	1,000	0	63.3	45	134	636.5	0.555	30	
Surr: 2-Fluorobiphenyl	598		500.0		120	35.3	142		0		
Surr: Terphenyl-d14 (surr)	615		500.0		123	51.2	134		0		

Sample ID: <b>1508001-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>				Prep Date: <b>8/3/2015</b>			RunNo: <b>23976</b>		
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>11482</b>					Analysis Date: <b>8/3/2015</b>			SeqNo: <b>453805</b>		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Naphthalene	899	58.7	1,174	0	76.6	42.9	138				
2-Methylnaphthalene	965	58.7	1,174	59.90	77.1	42.8	151				
1-Methylnaphthalene	972	58.7	1,174	55.14	78.1	41.6	148				
Acenaphthylene	954	58.7	1,174	0	81.2	32.6	160				
Acenaphthene	905	58.7	1,174	0	77.1	46.3	142				
Fluorene	878	58.7	1,174	0	74.8	43.4	153				
Phenanthrene	876	58.7	1,174	39.43	71.3	45.5	140				
Anthracene	897	58.7	1,174	0	76.4	32.6	160				
Fluoranthene	905	58.7	1,174	30.28	74.5	44.6	161				
Pyrene	890	58.7	1,174	65.14	70.3	48.3	158				
Benz(a)anthracene	839	58.7	1,174	17.20	70.0	57.5	169				
Chrysene	931	58.7	1,174	0	79.2	45.2	146				
Benzo(b)fluoranthene	1,150	58.7	1,174	0	97.9	42.2	168				
Benzo(k)fluoranthene	817	58.7	1,174	0	69.6	48	161				
Benzo(a)pyrene	935	58.7	1,174	0	79.6	34.4	179				
Indeno(1,2,3-cd)pyrene	873	58.7	1,174	0	74.4	41.1	165				
Dibenz(a,h)anthracene	1,070	58.7	1,174	0	91.2	38.1	166				
Benzo(g,h,i)perylene	748	58.7	1,174	0	63.7	45.6	157				



Date: 8/4/2015

Work Order: 1508001

CLIENT: G-Logics

Project: Gilman

## QC SUMMARY REPORT

### Polyaromatic Hydrocarbons by EPA Method 8270 (SIM)

Sample ID: <b>1508001-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/Kg-dry</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23976</b>							
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>11482</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453805</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 2-Fluorobiphenyl	501		587.2		85.4	35.3	142				
Surr: Terphenyl-d14 (surr)	543		587.2		92.5	48.8	157				



**Work Order:** 1508001  
**CLIENT:** G-Logics  
**Project:** Gilman

**QC SUMMARY REPORT**  
**Sample Moisture (Percent Moisture)**

Sample ID: <b>1508001-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>wt%</b>	Prep Date: <b>8/3/2015</b>	RunNo: <b>23949</b>							
Client ID: <b>TP-5-SP-2</b>	Batch ID: <b>R23949</b>		Analysis Date: <b>8/3/2015</b>	SeqNo: <b>453568</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Percent Moisture	19.6	0.500						19.48	0.667	20	



# Sample Log-In Check List

Client Name: <b>GL</b>	Work Order Number: <b>1508001</b>
Logged by: <b>Clare Griggs</b>	Date Received: <b>8/3/2015 8:30:00 AM</b>

### Chain of Custody

1. Is Chain of Custody complete? Yes  No  Not Present
2. How was the sample delivered? Client

### Log In

3. Coolers are present? Yes  No  NA   
No cooler present.
4. Shipping container/cooler in good condition? Yes  No
5. Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) Yes  No  Not Required
6. Was an attempt made to cool the samples? Yes  No  NA   
Unknown prior to receipt.
7. Were all items received at a temperature of >0°C to 10.0°C \* Yes  No  NA
8. Sample(s) in proper container(s)? Yes  No
9. Sufficient sample volume for indicated test(s)? Yes  No
10. Are samples properly preserved? Yes  No
11. Was preservative added to bottles? Yes  No  NA
12. Is there headspace in the VOA vials? Yes  No  NA
13. Did all samples containers arrive in good condition(unbroken)? Yes  No
14. Does paperwork match bottle labels? Yes  No
15. Are matrices correctly identified on Chain of Custody? Yes  No
16. Is it clear what analyses were requested? Yes  No
17. Were all holding times able to be met? Yes  No

### Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:  
 No matrix selected.

### Item Information

Item #	Temp °C
Sample	9.6

\* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C





# Libby Environmental, Inc.

4139 Libby Road NE • Olympia, WA 98506-2518

August 10, 2015

Stuart Hyde  
G-Logics  
40 2<sup>nd</sup> Avenue SE  
Issaquah, WA 98027

Dear Mr. Hyde:

Please find enclosed the analytical data report for the Gilman Square Project located in Issaquah, Washington.

The results of the analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. The sample(s) will be disposed of in 30 days unless we are contacted to arrange long term storage.

Libby Environmental, Inc. appreciates the opportunity to have provided analytical services for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we are looking forward to the next opportunity to work together.

Sincerely,

Sherry L. Chilcutt  
*Senior Chemist*  
*Libby Environmental, Inc.*

# Libby Environmental, Inc.

# Chain of Custody Record

www.LibbyEnvironmental.com

4139 Libby Road NE  
Olympia, WA 98506  
Ph: 360-352-2110  
Fax: 360-352-4154

Date: 7/31/2015 Page: 1 of 1

Client: G-Logics

Project Manager: STUART HYDE

Address: 40 2nd Ave SE

Project Name: Gilman Square

City: Issaquah State: WA Zip: 98027

Location: Gilman Square, Issaquah City, State: WASHINGTON

Phone: 466-274-8457 Fax:

Collector: Zak Wall Date of Collection: 7/31/2015

Client Project # 01-0868-J

Email: STUARTH@g-logics.com



Sample Number	Depth	Time	Sample Type	Container Type	(MICA) NO MTBE VOC 8260 E6, EDC, DABTH NWTPH-GX DTX-8024 NWTPH-HCID NWTPH-DX c PAH 8270 PAH 8270 Semi Vol 8270 PCB 8082 MTCA 5 Metals RCRA 8 Metals											Field Notes			
					VOC 8260 E6, EDC, DABTH	NWTPH-GX	DTX-8024	NWTPH-HCID	NWTPH-DX	c PAH 8270	PAH 8270	Semi Vol 8270	PCB 8082	MTCA 5 Metals	RCRA 8 Metals				
1 NSW-5-6	6'	7:35	S		X	X	X		X										
2 NSW-5-6	6'	7:37	S		X	X	X		X										
3 F-5-5	5'	8:10	S		X	X	X		X										
4 TS-SP-1	4'	2:30	S		X	X			X										
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			

Relinquished by:	Date / Time	Received by:	Date / Time	<b>Sample Receipt</b> Good Condition? Y N Temp. °C Seals Intact? Y N N/A Total Number of Containers	Remarks:  ML  TAT: 24HR 48HR 5-DAY
<u>Zak Wall</u>	<u>7/31 3:20</u>	<u>Paul Bink</u>	<u>7/31/15 3:20</u>		
Relinquished by:	Date / Time	Received by:	Date / Time		
Relinquished by:	Date / Time	Received by:	Date / Time		

# Libby Environmental, Inc.

4139 Libby Road NE

Olympia, WA 98506

Phone: (360) 352-2110

FAX: (360) 352-4154

Email: libbyenv@aol.com

GILMAN SQUARE PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150731-40

Client Project # 01-0868-J

## Specific Halogenated and Aromatic Hydrocarbons by EPA 8260C in Soil

Sample Description	Method	NSW-5-6	WSW-5-6	F-5-5	F-5-5 Dup	T5-SP-1	
	Blank						
Date Sampled	N/A	7/31/15	7/31/15	7/31/15	7/31/15	7/31/15	
Date Analyzed	PQL	7/31/15	7/31/15	7/31/15	7/31/15	7/31/15	
	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
Benzene	0.02	nd	nd	nd	nd	nd	
Toluene	0.05	nd	nd	nd	nd	nd	
Ethylbenzene	0.03	nd	nd	nd	nd	nd	
Total Xylenes	0.05	nd	nd	nd	nd	nd	
1,2-Dichloroethane (EDC)	0.03	nd	nd	nd	nd	nd	
1,2-Dibromoethane (EDB) *	0.005	nd	nd	nd	nd	nd	
Total Naphthalenes	0.05	nd	nd	nd	nd	nd	
Surrogate Recovery							
Dibromofluoromethane	97	102	99	67	65	71	
1,2-Dichloroethane-d4	89	90	95	119	115	67	
Toluene-d8	108	90	106	110	105	119	
4-Bromofluorobenzene	98	99	95	99	103	104	

"nd" Indicates not detected at listed detection limit.

"int" Indicates that interference prevents determination.

\* INSTRUMENT DETECTION LIMIT

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150731-40

Client Project # 01-0868-J

## QA/QC Data - EPA 8260C Analyses

Sample Identification: WSW-5-6							
	Matrix Spike		Matrix Spike Duplicate			RPD	
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)	
Benzene	0.5	0.61	122	0.5	0.57	114	6.8
Toluene	0.5	0.59	118	0.5	0.63	126	6.6
Surrogate Recovery							
Dibromofluoromethane			72			77	
1,2-Dichloroethane-d4			117			74	
Toluene-d8			121			123	
4-Bromofluorobenzene			100			102	

Laboratory Control Sample			
	Spiked Conc. (mg/kg)	Measured Conc. (mg/kg)	Spike Recovery (%)
Benzene	0.5	0.43	86
Toluene	0.5	0.49	98
Surrogate Recovery			
Dibromofluoromethane			98
1,2-Dichloroethane-d4			84
Toluene-d8			106
4-Bromofluorobenzene			101

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 65%-135%

ACCEPTABLE RPD IS 35%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT

G-Logics

Issaquah, Washington

Libby Project # L150731-40

Client Project # 01-0868-J

## Analyses of Gasoline (NWTPH-Gx) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Gasoline (mg/kg)
Method Blank	7/31/15	108	nd
NSW-5-6	7/31/15	90	nd
WSW-5-6	7/31/15	106	nd
F-5-5	7/31/15	110	nd
F-5-5 Dup	7/31/15	105	nd
TS-SP-1	7/31/15	119	nd
Practical Quantitation Limit			10

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Trifluorotoluene): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# Libby Environmental, Inc.

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GILMAN SQUARE PROJECT  
G-Logics  
Issaquah, Washington  
Libby Project # L150731-40  
Client Project # 01-0868-J

## Analyses of Diesel & Oil (NWTPH-Dx/Dx Extended) in Soil

Sample Number	Date Analyzed	Surrogate Recovery (%)	Diesel (mg/kg)	Oil (mg/kg)
Method Blank	7/31/15	96	nd	nd
NSW-5-6	7/31/15	106	nd	nd
WSW-5-6	7/31/15	97	nd	nd
F-5-5	7/31/15	106	nd	nd
F-5-5 Dup	7/31/15	93	nd	nd
T5-SP-1	7/31/15	112	nd	1520
Practical Quantitation Limit			25	50

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (2-F Biphenyl): 65% TO 135%

ANALYSES PERFORMED BY: Paul Burke

# **ATTACHMENTS**

**Permission and Conditions for Use and Copying Form**

**Cleanup Action Report  
Gilman Square, 615 NW Gilman Blvd  
Issaquah, WA 98027**

**G-Logics Project 01-0868-J  
August 16, 2017**

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Date	_____

