SoundEarth Strategies, Inc.
2811 Fairview Avenue East, Suite 2000
Seattle, Washington 98102

March 1, 2013

Mr. Marrell Livesay
Seattle Department of Parks and Recreation
800 Maynard Avenue South, Fourth Floor
Seattle, Washington 98134

SUBJECT: PHASE II ENVIRONMENTAL SITE ASSESSMENT - UPLANDS
Bryant Building Property
1101 through 1137 Northeast Boat Street
Seattle, Washington
Project Number: 0355-073-02

Dear Mr. Livesay:

SoundEarth Strategies, Inc. (SoundEarth) has prepared this letter report to document the results of the Phase II Environmental Site Assessment (ESA) completed by SoundEarth at the uplands portions of the Bryant Building property located at 1101 through 1137 Northeast Boat Street in Seattle, Washington (the Property). The Property consists of a portion of an irregularly shaped tax parcel (King County Parcel No. 1142004555) along the shoreline of Lake Union that covers approximately 71,934 square feet (1.65 acres) of land and approximately 85,701 square feet (1.97 acres) of submerged area in Lake Union. The location of the Property is shown on Figure 1.

The Property is currently occupied by a 1922-vintage, three-story building known as the Bryant Building, which encloses approximately 33,000 square feet of space. The wood-framed structure has a pitched roof and is heated by a natural gas system. Additional improvements include a wood-framed storage building constructed in the 1940s, boat moorage constructed in 1956, and asphalt-paved and concrete parking areas, as shown on Figure 2.

The purpose of this Phase II ESA report is to address the recognized environmental conditions related to the uplands portions of the Property that were identified in SoundEarth's Phase I ESA of the Property, dated September 17, 2012. A Phase II ESA report documenting the environmental conditions of submerged portions of the Property has been provided under separate cover.

PROJECT BACKGROUND

The Property was initially developed with a lumber mill in the early 1900s. Numerous house boats were also present along the western portion of the Property in the early 1900s. The lumber mill structure was converted to boat storage use by 1950 and was demolished by 1977. The structure currently identified as the Bryant Building was added to the Property in 1922. Boat manufacturing and repair activities began on the Property by 1938 and continued through at least the late 1960s. A marine fueling facility that included seven underground storage tanks (USTs) operated on the western portion of the Property from the early 1960s until the late 1980s. The University of Washington has occupied the Property since the early 1970s. The Property is currently occupied by the Boat Street Marina, the University of

Washington Police Department, and University of Washington Recycling and Solid Waste office and transfer facility.

The following recognized environmental conditions were identified during the course of SoundEarth's September 2012 Phase I ESA:

- **Confirmed impacts to subsurface soil and groundwater by petroleum products and lead.** Concentrations of petroleum products and lead above the applicable Washington State Model Toxics Control Act (MTCA) Method A cleanup levels remained beneath the western portion of the Property following the removal of seven marine fueling-related USTs in 1992 and the operation of a pump and treat remediation system for approximately 7 years. The Property appears on the Washington State Department of Ecology (Ecology) Independent Cleanup Reports, Leaking UST, and UST databases related to this reported past release. Shannon & Wilson, Inc. previously estimated that approximately 2,500 cubic yards of petroleum-contaminated soil (PCS) were present beneath the parking lot on the western portion of the Property, with an additional approximately 700 cubic yards of PCS present beneath the Bryant Building in 1991–1992 prior to installation of a remediation system at the Property. Approximately 1,028 tons of PCS were removed from the western portion of the Property by others in 1992 during the decommissioning of seven USTs.
  - **Data Gaps.** Concentrations of diesel- and heavy oil-range total petroleum hydrocarbons (DRPH and ORPH, respectively) and polycyclic aromatic hydrocarbons (PAHs) were reportedly above the MTCA Method A or Method B cleanup levels during the most recent sampling of five wells at the Property by others in 2007. The current environmental condition of groundwater beneath the western portions of the Property was not known.
  - The extent of remaining PCS beneath the western portion of the Property following the shutdown of the remediation system in 1999 remained unassessed.
- **Former boat manufacturing and repairing activities performed at the Property over a period of at least 30 years beginning by 1938.** Historical records indicated that boat manufacturing activities occurred within the current Bryant Building and the current storage structure. A paint shop also existed on the east side of the current storage building in 1950. Contaminants in the form of petroleum products, solvents, and metals are commonly associated with historical boat manufacturing and repairing activities.
  - **Data Gaps.** No previous environmental investigations were apparently performed in the areas of former boat manufacturing activities on the Property. Subsurface environmental conditions in these areas remained unassessed.
- **Former operation of a lumber mill on the southeastern portion of the Property during the early 1900s.** Petroleum products were often used extensively in lumber mill activities.
  - **Data Gaps.** No previous environmental investigations were apparently performed in the area of the former lumber mill operations on the Property. Subsurface environmental conditions in this area remained unassessed.
- **Multiple incidental releases from marine vessels.** The Property appears on the ERNS database and SPILLS database for a total of seven events related to fluid spills, primarily petroleum products, incidentally released from marine vessels.

  - **Data Gaps.** No previous environmental investigations were apparently performed along the shoreline or in the sediments of the submerged portions of the Property. The environmental conditions in these areas remained unassessed.

- **Presence of fill material of unknown origin beneath the Property**. The shoreline of the Property was extended southward by artificial filling during the early 1900s. The source and environmental quality of the fill material was not apparent.
  - **Data Gaps.** The environmental character of fill material underlying the Property remained unassessed.
- **Unknown subsurface environmental conditions proximal to a 500-gallon heating oil UST decommissioned in-place in 2007.** The location of the closed-in-place heating oil UST was not observed in available public records, nor was the tank location known by interviewed Property ownership representatives. Subsequent to the publication of SoundEarth's Phase I ESA, the Property ownership provided information regarding the general location of the decommissioned UST, which was located within the storage building on the eastern portion of the Property.
  - **Data Gaps.** The exact location of this closed-in-place UST and the environmental condition of subsurface soil and/or groundwater proximal to the tank remained unassessed.
- **Historical operation of an industrial incinerator on the east-adjoining property (current Sakuma Viewpoint Park) during the 1920s to 1930s**. Public records indicate that the industrial incinerator may have been associated with lumber mill operations performed on the Property.
  - **Data Gaps.** No previous environmental investigations were apparently performed on the eastern portion of the Property. The potential risk of impacts to the Property, if any, from the east-adjoining former industrial incinerator facility remained unassessed.

PHASE II ENVIRONMENTAL SITE ASSESSMENT - UPLANDS

The scope of work associated with the subsurface investigation (SI) activities on the uplands portion of the Property that were performed as part of this Phase II ESA included the following:

- Preparing a health and safety plan in accordance with MTCA Method A and Part 1910.120 of Title 29 of the Code of Federal Regulations and a work plan before initiating field activities.
- Performing a utility locate at the proposed boring locations using a private utility location service and contacting the One-Call Center for utility location.
- Using ground-penetrating radar (GPR) in an effort to locate the approximate limits of the closed-in-place heating oil UST in the storage building.
- Advancing a total of 11 soil borings (borings P01 through P11) to maximum depths ranging from 6 to 16 feet below ground surface (bgs; Figure 3; Attachment A).
- Measuring water levels and collecting groundwater samples from pre-existing wells installed by others and identified by SoundEarth as wells MW05, MW11, MW14, and MW16, and the temporary well screens in borings P01 through P04 and P06 through P11 (Figure 3). Boring P05 did not produce a sufficient volume of groundwater to collect a groundwater sample.
- Submitting at least one soil sample from each boring for laboratory analysis for DRPH and ORPH using Northwest Total Petroleum Hydrocarbon (NWTPH) Method NWTPH-Dx; gasoline-range

petroleum hydrocarbons (GRPH) using Method NWTPH-Gx; Resource Conservation and Recovery Act (RCRA) 8 metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) by U.S. Environmental Protection Agency (EPA) Methods 200.8/1631E, carcinogenic polycyclic aromatic hydrocarbons (cPAHs) using EPA Method 8270C, volatile organic compounds (VOCs) using EPA Method 8260C, and pentachlorophenol (PCP) using EPA Method 8270D SIM (Attachment B).

- Performing supplemental laboratory analysis for a client-specified list of total metals on the sample found to contain the overall highest reported concentrations of RCRA 8 Metals (sample number P07-03).
- Submitting groundwater samples collected from four on-Property existing monitoring wells (MW05, MW11, MW14, and MW16) and ten reconnaissance groundwater samples collected from soil borings P01 through P04 and P06 through P11 for laboratory analysis for DRPH and ORPH using Method NWTPH-Dx; GRPH using Method NWTPH-Gx; RCRA 8 total metals by EPA Methods 200.8/1631E, cPAHs using EPA Method 8270C, VOCs using EPA Method 8260C, and PCP using EPA Method 8270D SIM (Attachment B). Groundwater samples collected for RCRA 8 total metals analysis were field-filtered during collection.
- Preparing this report.

A detailed description of the investigation activities is provided in the following subsections.

Field Activities

The activities conducted as part of this investigation were performed on February 5, 6, 7, and 8, 2013. Drilling activities were conducted under the supervision of a SoundEarth licensed geologist.

Before investigation activities were initiated, a private utility location was conducted by Applied Professional Services, Inc. of North Bend, Washington.

Camera scoping of the main floor drain discharge line was not feasible because of line blockage by debris observed in the catch basin just east of the Bryant Building.

GPR was used to identify the approximate limits of the closed-in-place 500-gallon heating oil UST in the storage building on the eastern portion of the Property (Figure 2; Attachment C, Property Photographs).

Soil drilling services were provided by Holocene Drilling, Inc. of Puyallup, Washington.

Soil Sample Collection

Eleven soil borings (P01 through P11) were advanced at the Property (Figure 3) to depths ranging from approximately 6 to 16 feet bgs. These borings were advanced to evaluate the issues of potential environmental concern listed earlier for the upland area of the Property.

The soil borings were advanced using a truck-mounted Strataprobe hydraulic drill rig (borings P01 through P07 and P09 through P11) or a hand-held jackhammer (boring P08). Each boring was sampled continuously from the ground surface to the maximum depth explored. After the maximum depth was achieved in each sample interval, relatively undisturbed, discrete soil samples were collected. The soil was classified using the Unified Soil Classification System. Soil characteristics, including moisture

content, relative density, texture, and color were recorded on boring logs, copies of which are provided as Attachment A. Once sampling activities were complete, each soil boring was abandoned to grade with bentonite chips and patched with either concrete or asphalt.

Selected portions of recovered soil core samples were placed in a plastic bag so the presence or absence of volatile organic compounds could be quantified using a photoionization detector (PID). Soil samples were selected for analysis based on field observations, including visual and olfactory notations and PID readings. Soil samples selected for laboratory chemical analysis were placed into laboratory-prepared glassware in accordance with EPA guidelines.

After collection, soil samples were labeled with a unique sample ID, placed on ice in a cooler, and delivered to Analytical Resources, Inc. of Tukwila, Washington, under standard chain-of-custody protocols for laboratory analysis.

Non-dedicated field sampling equipment was cleaned and decontaminated before and between uses and before leaving the Property. Soil drill cuttings and decontamination rinse water were placed in separately labeled drums at the Property.

Waste soil cuttings generated during the sampling event were placed in an appropriately labeled 30-gallon steel drum and stored on the Property pending receipt of analytical data and proper disposal.

Groundwater Sample Collection

On February 5, 2013, groundwater samples were collected from monitoring wells MW05, MW11, MW14, and MW16 in accordance with EPA guidance *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (April 1996). Purging and sampling of monitoring wells MW05, MW11, MW14, and MW16 were performed using a peristaltic pump and dedicated polyethylene tubing at a maximum flow rate of 250 milliliters per minute. The tubing intake was placed approximately 2 to 3 feet below the surface of the groundwater. Information regarding well screen intervals for these monitoring wells installed by others was not available to SoundEarth. During purging, water quality was monitored using a YSI multi-parameter water quality meter equipped with a flow-through cell. The water quality parameters that were monitored and recorded included temperature, pH, specific conductance, dissolved oxygen, turbidity, and oxidation-reduction potential. Each monitoring well was purged until all six water quality parameters stabilized or the minimum parameter subset of pH, specific conductance, temperature, and turbidity and/or dissolved oxygen stabilized. Monitoring wells MW11 and MW14 exhibited very slow recharge and were pumped dry, then allowed to recharge for sampling. Groundwater samples collected from wells MW11 and MW14 are considered reconnaissance samples because the wells were pumped dry during low-flow purging. Boring P05 did not produce a sufficient volume of groundwater to collect a groundwater sample.

Following purging, groundwater samples were collected from the pump outlet tubing located upstream of the flow-through cell and placed directly into clean, laboratory-prepared sample containers. Each container was labeled with a unique sample identification number, placed on ice in a cooler, and transported to Analytical Resources, Inc., of Tukwila, Washington, under standard chain-of-custody protocols for laboratory analysis.

Purge water generated during the sampling event was placed in an appropriately labeled 30-gallon steel drum and stored on the Property pending receipt of analytical data and proper disposal.

RESULTS

This section summarizes the results of the uplands portion of the Phase II ESA conducted at the Property in February 2013. The analytical results for the soil samples collected during the investigation at the Property are presented in Tables 1 through 6. The analytical results for groundwater samples collected during the investigation at the Property are presented in Tables 7 through 11. Laboratory analytical reports for the soil and groundwater samples collected during the SI are included as Attachment B.

Subsurface Conditions

Soil types generally encountered in the borings included layers of silty sand, sand, and silt (Attachment A). The upper approximately 2 to 9.5 feet of soil encountered in several of the borings was interpreted to represent fill material. Some of the fill material encountered in the area of the former on-Property lumber mill included wood debris and sawdust. Native dense glacial till was encountered at approximately 8.5 feet bgs in boring P01. An approximately 3-foot-thick layer of wet clay was encountered beginning at a depth of approximately 8.5 feet bgs in boring P07. Groundwater was encountered at depths ranging from approximately 1.8 to 5.3 feet bgs in borings P01 through P09. Groundwater was encountered in the borings advanced on the upper parking lot on the western portion of the Property (borings P10 and P11) at depths of approximately 10.4 and 10.9 feet bgs, respectively.

A faint hydrocarbon odor and sheen were noted on purge water from well MW11.

As indicated on the attached boring logs, field observations (hydrocarbon odors and elevated PID readings) indicated the presence of hydrocarbons in the soil sample collected from boring P10 at approximately 8 to 12 feet bgs.

Soil Analytical Results

Concentrations of GRPH exceeding the MTCA Method A cleanup level were detected in soil collected from borings P02 (at approximately 3 feet bgs) and boring P10 (at approximately 12 feet bgs) (Table 1). Concentrations of GRPH below the MTCA Method A cleanup level were detected in borings P01 (at approximately 4 feet bgs) and P03 (at approximately 3 feet bgs). Concentrations of benzene that were below the MTCA Method A cleanup level of 0.03 milligrams per kilogram (mg/kg) were detected in soil samples analyzed from borings P01, P02, P03, and P10 (Table 2).

Concentrations of DRPH and/or OPRH were detected in analyzed soil samples collected from borings P01, P02, P03, P07, P08, P09, and P10, but the concentrations were below the MTCA Method A cleanup level of 2,000 mg/kg (Table 1).

The soil sample collected from boring P04 at approximately 6 feet bgs contained 0.045 mg/kg trichloroethene (TCE), which exceeds the MTCA Method A cleanup level of 0.03 mg/kg (Table 2). Concentrations of VOCs in the remaining analyzed soil samples were below the laboratory reporting limits and/or their applicable MTCA Method A or Method B standard formula value cleanup levels.

Concentrations of RCRA 8 metals in the analyzed soil samples were below the laboratory reporting limits and/or their applicable MTCA Method A or Method B standard formula value cleanup levels, except for arsenic and lead in the soil sample collected from boring P07 at approximately 3 feet bgs. The reported arsenic concentration in the soil sample analyzed from boring P07 was 26.9 mg/kg, which exceeds the

MTCA Method A cleanup level of 20 mg/kg. The reported lead concentration in this soil sample from boring P07 was 5,570 mg/kg, which exceeds the MTCA Method A cleanup level of 250 mg/kg (Table 3).

Concentrations of PCP in the analyzed soil samples were below the laboratory reporting limits and/or the applicable MTCA Method B standard formula value cleanup level of 2.5 mg/kg (Table 4).

Soil containing concentrations of total cPAHs exceeding the MTCA Method A cleanup level of 0.1 mg/kg was encountered in borings P02 and P03 at approximately 3 feet bgs. Concentrations of total cPAHs in remaining analyzed soil samples collected from borings P01 and P04 through P11 were below the laboratory reporting limits and/or the MTCA Method A cleanup level (Table 5).

Follow up analysis was performed on the soil sample with the highest overall RCRA 8 metals concentrations (sample number P07-03) for a client-specified listing of total metals. Results of this total metals analysis performed for sample P07-03 revealed that the total metals concentrations were below the laboratory reporting limits and/or their applicable MTCA Method A or Method B standard formula value cleanup levels, except for lead and vanadium. The lead concentration was 6,860 mg/kg, which exceeds the MTCA Method A cleanup level of 250 mg/kg. The reported vanadium concentration of 32.6 mg/kg exceeds the MTCA Method B non-carcinogenic standard formula value of 5.6 mg/kg (Table 6).

Additionally, toxicity characteristic leaching procedure (TCLP) analysis was performed on sample number P07-03 for arsenic and lead (Attachment B). TCLP results revealed a concentration of 19.1 milligrams per liter (mg/L) for lead, exceeding the TCLP limit of 5.0 mg/L. TCLP results for arsenic were less than the reporting limit of 0.2 mg/L.

Groundwater Analytical Results

Concentrations of GRPH and DRPH exceeding the MTCA Method A cleanup levels were detected in the groundwater sample collected from monitoring well MW11. Concentrations of GRPH were below the laboratory reporting limit for remaining analyzed groundwater samples. Concentrations of DRPH were below the laboratory reporting limit and/or the MTCA Method A cleanup level of 500 micrograms per liter (µg/L) for the remaining analyzed groundwater samples (Table 7).

Concentrations of OPRH that exceeded the MTCA Method A cleanup level were reported in groundwater samples collected from borings P01, P02, and P11. ORPH was detected in the groundwater sample collected from monitoring well MW11 at the MTCA Method A cleanup level of 500 µg/L (Table 1). Concentrations of ORPH were below the laboratory reporting limit (200 µg/L) and the MTCA Method A cleanup level for remaining analyzed groundwater samples (Table 7).

One or more of the chlorinated solvents TCE, vinyl chloride, and cis-1,2-Dichloroethene (DCE) were detected in groundwater samples collected from borings P02, P03, P04, P06, P07, and P08 at concentrations that exceed their respective MTCA Method A cleanup levels. Concentrations of other VOCs in the analyzed groundwater samples from these borings and of VOCs in groundwater sampled from the remaining borings and wells MW05, MW11, MW14, and MW16 were below the laboratory reporting limits and/or their applicable MTCA Method A or Method B standard formula value cleanup levels (Table 8; Attachment B).

Concentrations of RCRA 8 total metals in the analyzed groundwater samples were either below the laboratory reporting limits and/or their applicable MTCA Method A or Method B standard formula value

cleanup levels, except for total arsenic in the samples collected from wells MW05, MW14, and MW16, and dissolved arsenic in wells MW05 and MW14. Concentrations of total arsenic ranged from 8.6 µg/L (at MW16) to 70 µg/L (at MW14), which exceed the MTCA Method A cleanup level of 5 µg/L. Follow up analysis for dissolved arsenic revealed concentrations of 22.3 µg/L (at MW14) to 24.0 µg/L (at MW05), both of which exceed the MTCA Method A cleanup level. The dissolved arsenic concentration in groundwater sample collected from monitoring well MW16 (1.3 µg/L) was below the MTCA Method A cleanup level (Table 9).

PCP was detected in the groundwater sample collected from monitoring well MW14 at a concentration of 0.40 µg/L, which exceeds the MTCA Method B carcinogen standard formula value of 0.22 µg/L. Concentrations of PCP in the remaining analyzed groundwater samples were below the laboratory reporting limit; however, the reporting limit is 0.25 µg/L, which is above the applicable MTCA Method B carcinogen standard formula value cleanup level (Table 10). As such, it is not possible to evaluate whether the PCP concentrations in the remaining groundwater samples are below the applicable MTCA Method B carcinogen standard formula value cleanup level.

Concentrations of total cPAHs exceeding the MTCA Method A cleanup level of 0.1 µg/L were confirmed in the groundwater sample collected from boring P02. Concentrations of total cPAHs in the remaining analyzed groundwater samples were below the laboratory reporting limits and/or the MTCA Method A cleanup level (Table 11).

Data Quality Review

SoundEarth reviewed laboratory quality control data provided with the Analytical Resources, Inc. reports to evaluate the usability of the analytical results. SoundEarth reviewed the accuracy and precision data in addition to sample holding times, laboratory method blanks, and laboratory method detection limits, where applicable. The total metals sample duplicate relative percent difference for lead in the soil sample P01-04 is outside the 20 percent control limits. All other quality control for total metals was acceptable and no further corrective action was taken. The laboratory reporting limits for PCP in groundwater slightly exceeded the MTCA Method B cleanup level, which renders any comparison of the laboratory results to the cleanup level impossible. The values reported for PCP in soil samples collected from borings P02 and P03 were flagged as estimates by the laboratory. This is not anticipated to affect the findings and conclusions of this report. The value reported by the laboratory for indeno(1,2,3-cd)pyrene for groundwater sample P02-20130207 is an estimate and was flagged by the laboratory. This reported result is not anticipated to significantly affect the findings and conclusions of this report because the reported concentration of benzo(a)pyrene for sample P02-20130207 exceeded the MTCA Method A cleanup level. The remaining quality control criteria are acceptable for samples submitted for analysis; therefore, the analytical results are usable to meet the project objectives. Copies of the laboratory analytical reports are provided in Attachment B.

FINDINGS AND CONCLUSIONS

The results of this Phase II ESA indicate the following:

- Chlorinated solvents, including TCE, DCE, and vinyl chloride, are present in soil and/or groundwater throughout much of the Property. The highest concentrations of VOCs were encountered in samples collected beneath the Bryant Building and the storage building on the central portion of the Property. The source of the chlorinated solvent-impacted soil and

groundwater has not been confirmed, but potential sources include past solvent use related to on-Property boat manufacturing activities and a possible hydrologically upgradient off-Property source north of Northeast Boat Street.

- The total carcinogenic PAH concentrations in soil and/or groundwater collected from boring P02 and P03 exceeded the MTCA Method A cleanup level. cPAHs were also detected in soil and groundwater at other locations throughout the Property, but at concentrations that were below the cleanup level. The source of the cPAH impacts beneath the Property has not been confirmed, but potential sources include the former boat manufacturing activities and the imported fill material that was placed at the Property. The apparent absence of impacts associated with the former UST beneath the storage building suggests that this is not a significant source of cPAH impacts beneath the Property.
- GRPH remains in soil at concentrations above the MTCA Method A cleanup level in the vicinity of borings P02 and P10, which are located beneath the Bryant Building and proximal to the former marina UST area on the western portion of the Property, respectively. Petroleum hydrocarbons, including GRPH, DRPH, and ORPH, were detected at concentrations exceeding their respective MTCA Method A cleanup levels in groundwater samples collected from monitoring well MW11 and boring P11, which are located proximal to the former marina UST area. ORPH was also detected at concentrations exceeding the MTCA Method A cleanup level in groundwater samples collected from borings P01 and P02, which are located on the eastern and central portions of the Property, respectively. The source of the petroleum impacts encountered beneath the western portion of the Property appears to be the former marina USTs, where petroleum impacts were previously confirmed by others. The source of the petroleum impacts beneath the other portions of the Property has not been confirmed, but potential sources include surficial releases from the former boat manufacturing activities and the imported fill material that was placed at the Property. The apparent absence of impacts associated with the former UST beneath the storage building suggests that this is not a significant source of petroleum impacts beneath the Property.
- Lead was detected in a soil sample collected from boring P07 at a concentration that exceeded the MTCA Method A cleanup level. The soil sample also exceeded the TCLP limit of 5.0 mg/L, which means the soil is considered a “characteristic hazardous waste.” Boring P07 is located on the south-central portion of the Property. The source of the lead contamination in soil is suspected to be the imported fill material that was placed at the Property.
- Arsenic was detected at concentrations exceeding the MTCA Method A cleanup level in groundwater collected from three monitoring wells located on the western portion of the Property. Arsenic was also detected at concentrations above the MTCA Method A cleanup level in soil collected from boring P07, which is located on the south-central portion of the Property. The source of arsenic in soil and groundwater at these locations has not been confirmed, but potential sources include the imported fill material that was placed at the Property, as well as treated timber that may have been used as pilings or disposed of at the Property. No evidence was observed in the course of SoundEarth’s Phase I or Phase II ESAs to suggest that wood treatment activities have been performed on the Property that could have caused the arsenic impacts.
- PCP was detected at a concentration exceeding the MTCA Method B cleanup level in the groundwater sample collected from monitoring well MW14. Although PCP was not detected in

any of the other groundwater samples collected during this Phase II ESA, the laboratory reporting limits slightly exceeded the MTCA Method B cleanup level, which renders any comparison of the laboratory results to the cleanup level impossible. PCP was detected at estimated concentrations well below the MTCA Method B cleanup level in soil samples collected from borings P02 and P03, which are located beneath the Bryant Building. The source of the PCP impacts beneath the Property has not been confirmed, but potential sources include the imported fill material that was placed at the Property, as well as treated timber that may have been used as pilings or disposed of at the Property. No evidence was observed in the course of SoundEarth's Phase I or Phase II ESAs to suggest that wood treatment activities have been performed on the Property that could have caused the PCP impacts.

The lateral and vertical extents of impacts beneath the Property have not been determined, nor was such an evaluation envisioned within the proposed scope of this Phase II ESA.

RECOMMENDATIONS

If additional information regarding the nature and extent of impacts beneath the Property is desired, a remedial investigation could be performed. Such an investigation would likely include the installation of additional soil borings and monitoring wells throughout the Property. The information gathered during the remedial investigation, which may require several phases of subsurface investigations to complete, could be used to more definitively identify the sources of the impacts, the chemicals and media of concern, the pathways for contaminant migration, and the pathways of exposure to human health and the environment. Following completion of the remedial investigation, a feasibility study could be performed to identify the appropriate remedial alternatives and a cleanup action plan could be prepared that details the work that would be performed to bring the Property into regulatory compliance. If additional investigations are performed at the Property, they should also incorporate the findings and conclusions from the investigation of the submerged portions of the Property, which are currently being prepared.

Ecology requires the owner of a property to report environmental impacts within 90 days of discovery. Waste generated in the course of this investigation will also require proper profiling and characterization prior to disposal at an appropriately licensed facility. It should be noted that investigative-derived waste that contains concentrations of PCP may be profiled as discarded material with an F027 waste code. Profiling of PCP-containing waste under the F027 waste code would include analysis for regulated hazardous compounds such as dioxins and furans.

The approximate cost to dispose of generated waste listed as F027 can range from $255 per ton (below land ban concentrations of 100 mg/kg for PCP) to $12,000 per ton (above land ban concentrations of 100 mg/kg for PCP). The concentrations of PCP in soil and groundwater encountered during this Phase II ESA suggest that potential generated waste would be below the land ban concentrations for PCP. However, additional waste profiling would be necessary to assess the concentrations of the other chlorinated phenols and dioxins and furans to complete the waste profile.

SoundEarth is available to assist with the regulatory notification process, as well as with the disposal of investigative-derived waste. Neither of these activities was included within the proposed scope of work for this Phase II ESA.

LIMITATIONS

The findings and conclusions documented in this report have been prepared for the specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in the area. Sampling was conducted at widely spaced boring locations and depths, so the potential remains for unknown, unidentified, or unforeseen subsurface contamination to exist on portions of the Property that were not accessed in the course of this investigation. No warranty, expressed or implied, is made. This report is intended for the exclusive use of Seattle Department of Parks and Recreation and Washington State Department of Transportation.

CLOSING

SoundEarth appreciates the opportunity to work with you on this project. Please contact the undersigned at (206) 306-1900 if you have any questions or require additional information.

Respectfully,

SoundEarth Strategies, Inc.

State of Washington Licensed Geologist 2628 CHRIS G. CASS

Chris G. Cass, LG #2628
Project Geologist

State of Washington Licensed Geologist 1691 Ryan K. Bixby

Ryan K. Bixby, LG #1691
Environmental Division President

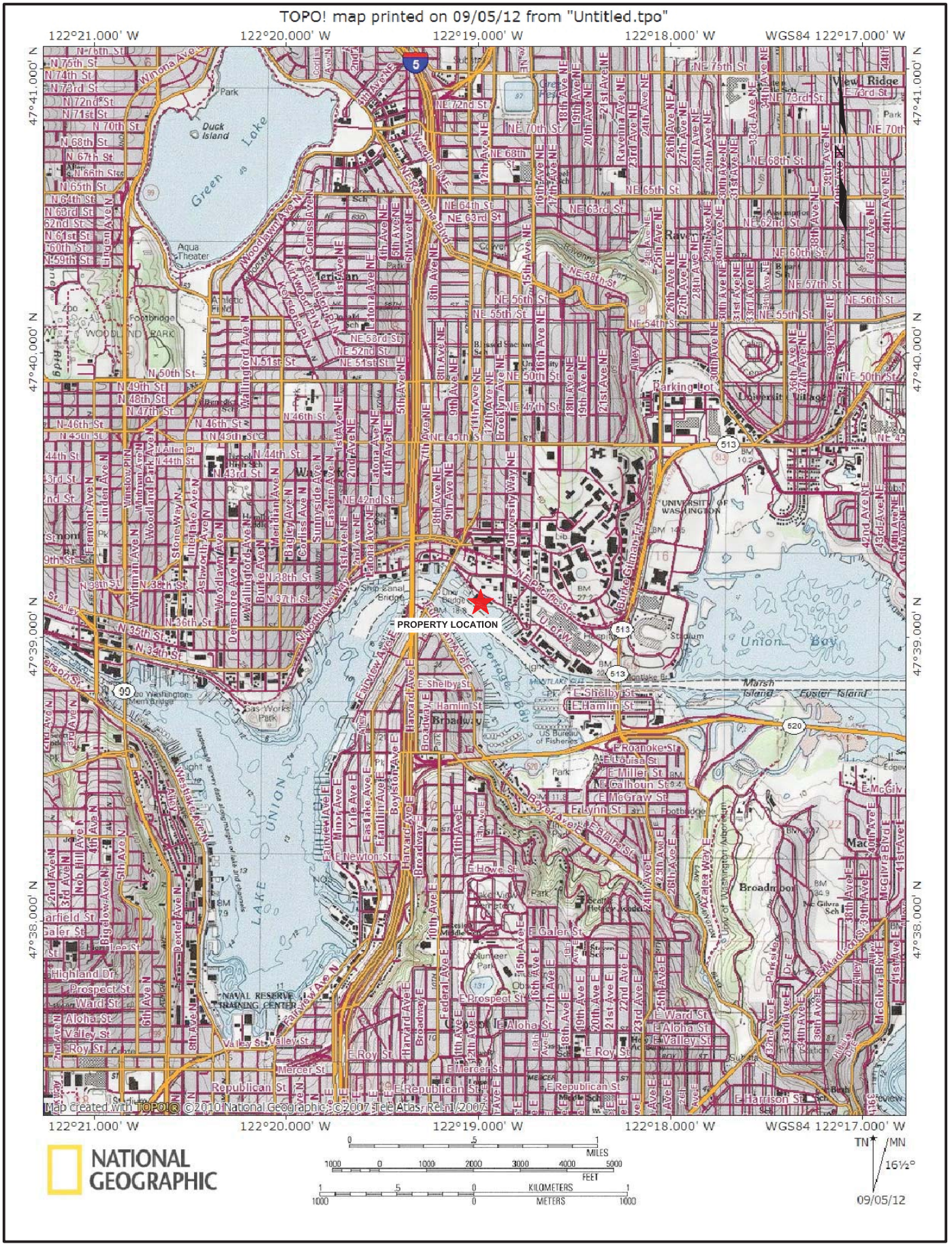
Attachments:
- Figure 1, Property Location Map
- Figure 2, Property Plan
- Figure 3, Exploration Location Plan
- Figure 4, Soil Results Map – MTCA Cleanup Level Exceedances
- Figure 5, Groundwater Results Map – MTCA Cleanup Level Exceedances
- Table 1, Summary of Soil Analytical Results – Total Petroleum Hydrocarbons
- Table 2, Summary of Soil Analytical Results – Volatile Organic Compounds
- Table 3, Summary of Soil Analytical Results – Metals
- Table 4, Summary of Soil Analytical Results – Pentachlorophenol
- Table 5, Summary of Soil Analytical Results – cPAHs
- Table 6, Summary of Soil Analytical Results – Total Metals
- Table 7, Summary of Groundwater Analytical Results – Total Petroleum Hydrocarbons
- Table 8, Summary of Groundwater Analytical Results – Volatile Organic Compounds
- Table 9, Summary of Groundwater Analytical Results – Metals

Table 10, Summary of Groundwater Analytical Results – Pentachlorophenol
Table 11, Summary of Groundwater Analytical Results – cPAHs
A, Boring Logs
B, Laboratory Analytical Reports
Analytical Resources, Inc. #WD12
Analytical Resources, Inc. #WD14
Analytical Resources, Inc. #WD15
Analytical Resources, Inc. #WC64 and WD27
Analytical Resources, Inc. #WD27
Analytical Resources, Inc. #WD84
Analytical Resources, Inc. #WE43
Analytical Resources, Inc. #WE44
C, Property Photographs

CGC/RKB:amr

FIGURES

P:\0355 SEATTLE PARKS & RECREATION\0355-073 BRYANT BUILDING\TECHNICAL\CAD\FIGURE 1\0355-073_FIG 1.DWG



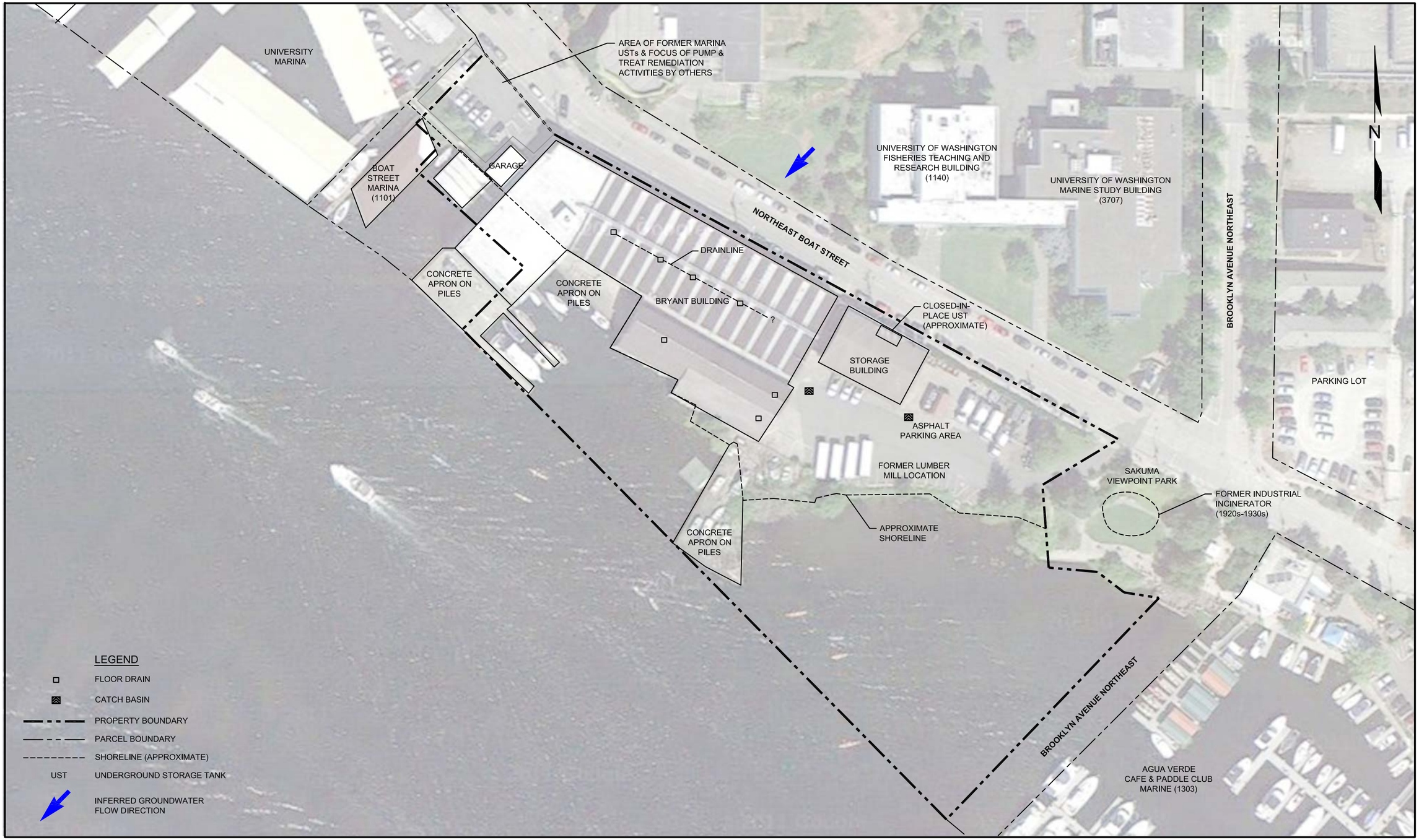
SoundEarth Strategies
WWW.SOUNDEARTHINC.COM

DATE: 09/06/12
DRAWN BY: JQC
CHECKED BY: CGS
CAD FILE: 0355-073_FIG1

PROJECT NAME: BRYANT BUILDING PROPERTY
PROJECT NUMBER: 0355-073
STREET ADDRESS: 1101-1137 NORTHESAST BOAT STREET
CITY, STATE: SEATTLE, WASHINGTON

FIGURE 1
PROPERTY LOCATION MAP

WWW.SOUNDEARTHINC.COM



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DATE: 02/08/13
DRAWN BY: NAC
CHECKED BY: CGC
CAD FILE: 0355-073_2013_PP

PROJECT NAME: BRYANT BUILDING PROPERTY
PROJECT NUMBER: 0355-073
STREET ADDRESS: 1101-1137 NORTHEAST BOAT STREET
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 40 80 160
APPROXIMATE SCALE IN FEET

FIGURE 2
PROPERTY PLAN

2/28/2013
P:\0355 SEATTLE PARKS & RECREATION\0355-073 BRYANT BUILDING\TECHNICAL\CAD\2013 SI\0355-073_2013_PP.DWG
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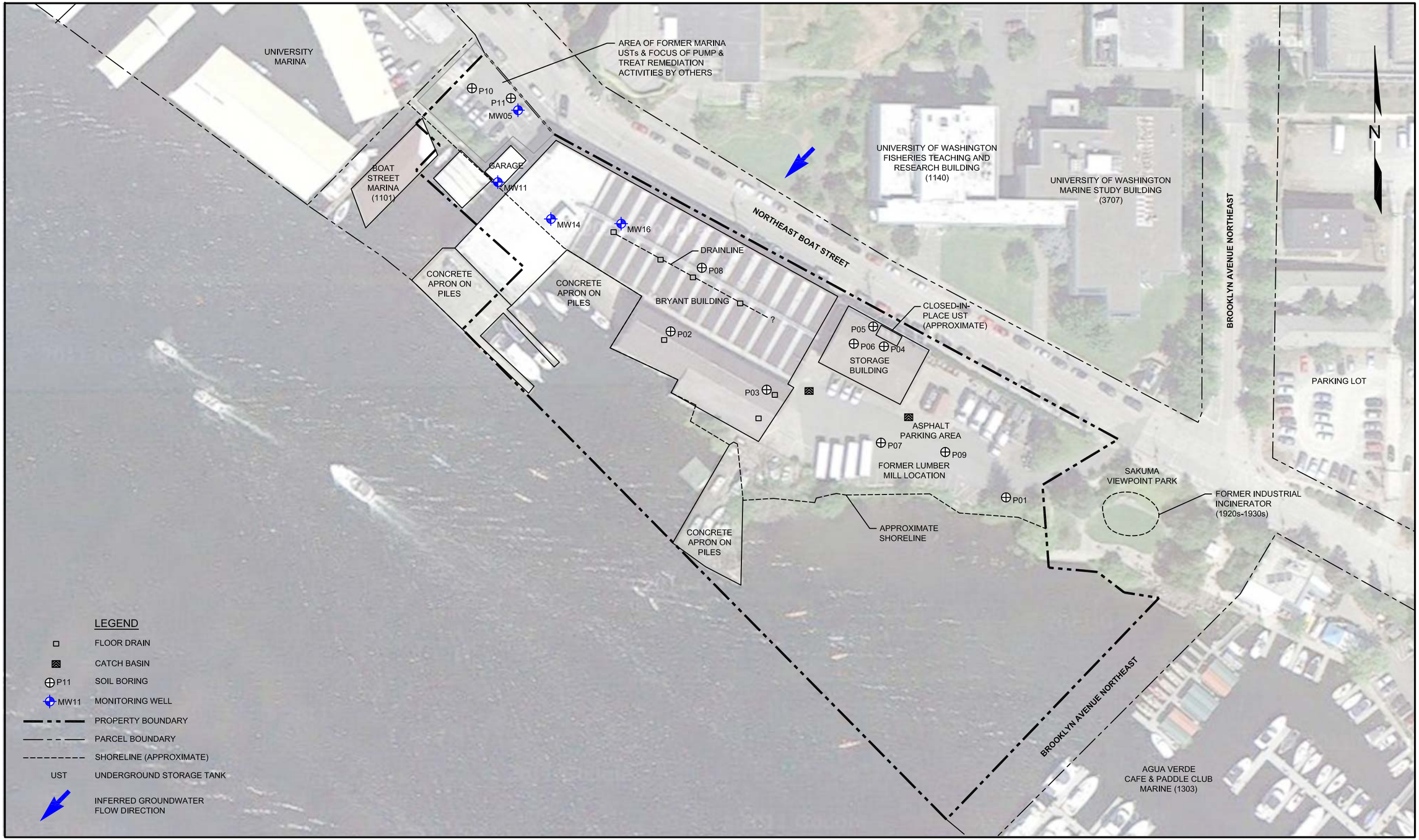

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DATE: 02/08/13
DRAWN BY: NAC
CHECKED BY: CGC
CAD FILE: 0355-073_2013_EL

PROJECT NAME: BRYANT BUILDING PROPERTY
PROJECT NUMBER: 0355-073
STREET ADDRESS: 1101-1137 NORTHEAST BOAT STREET
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 40 80 160
APPROXIMATE SCALE IN FEET

FIGURE 3
EXPLORATION LOCATION PLAN

P:\0355 SEATTLE PARKS & RECREATION\0355-073 BRYANT BUILDING\TECHNICAL\CAD\2013 SI\0355-073_2013_EL.DWG
3/1/2013
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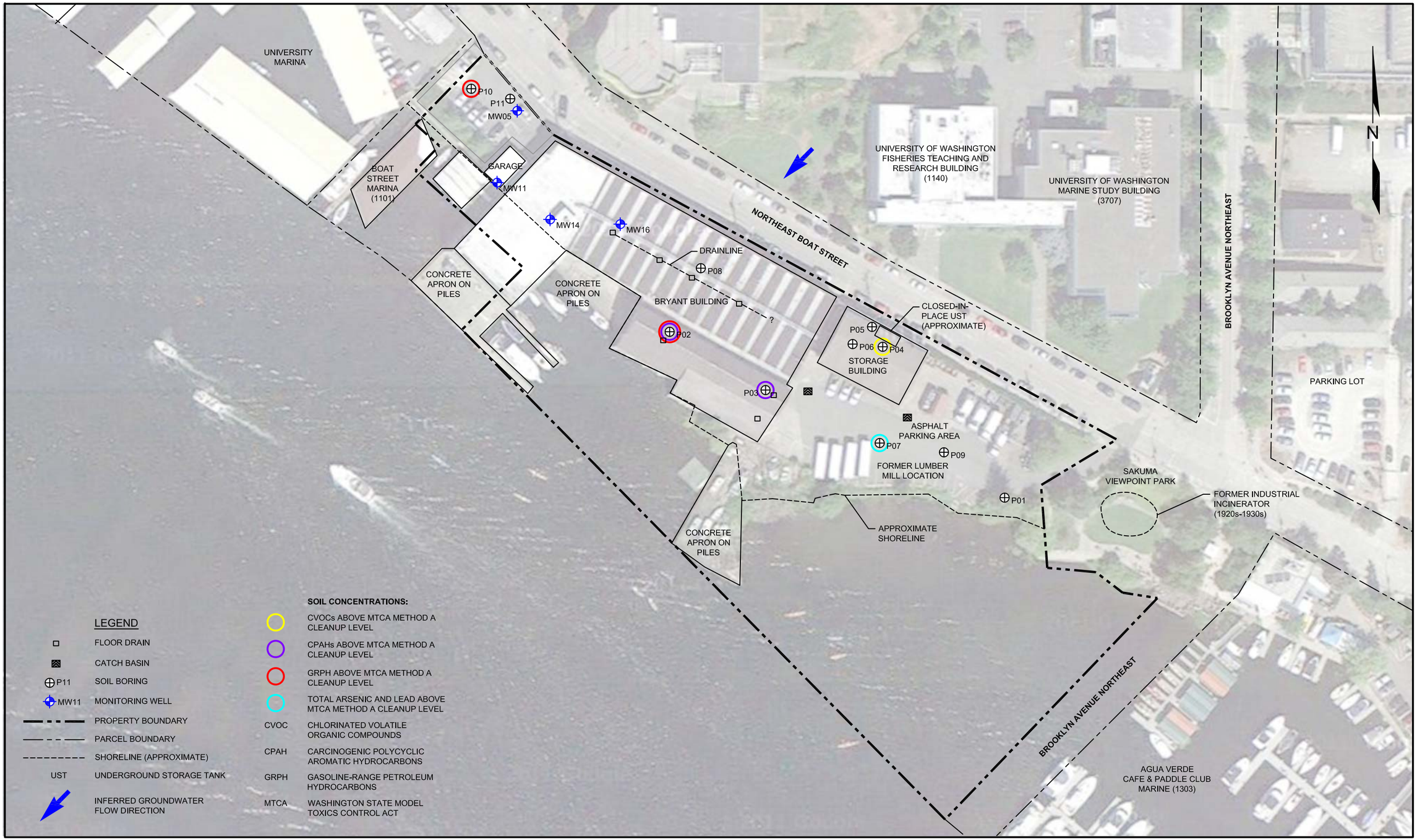

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DATE: 02/08/13
DRAWN BY: NAC
CHECKED BY: CGC
CAD FILE: 0355-073_2013_SD

PROJECT NAME: BRYANT BUILDING PROPERTY
PROJECT NUMBER: 0355-073
STREET ADDRESS: 1101-1137 NORTHEAST BOAT STREET
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 40 80 160
APPROXIMATE SCALE IN FEET

FIGURE 4
SOIL RESULTS MAP
MTCA CLEANUP LEVEL EXCEEDANCES

2/28/2013
P:\0355 SEATTLE PARKS & RECREATION\0355-073 BRYANT BUILDING\TECHNICAL\CAD\2013 SI\0355-073_2013_SD.DWG
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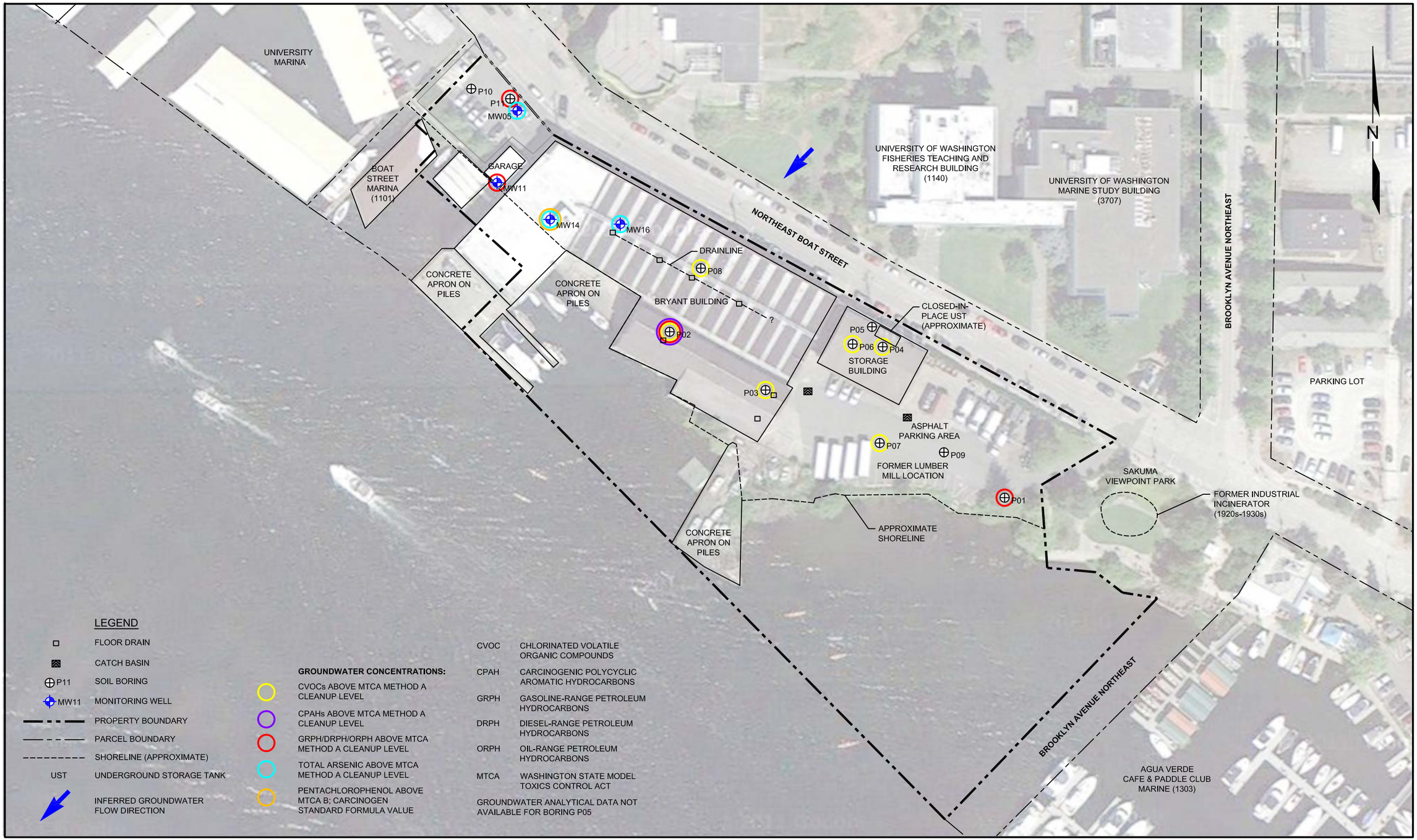

LEGEND

- FLOOR DRAIN
- CATCH BASIN
- P11 SOIL BORING
- MW11 MONITORING WELL
- PROPERTY BOUNDARY
- PARCEL BOUNDARY
- SHORELINE (APPROXIMATE)
- UST UNDERGROUND STORAGE TANK
- INFERRED GROUNDWATER FLOW DIRECTION

GROUNDWATER CONCENTRATIONS:

- CVOCs ABOVE MTCA METHOD A CLEANUP LEVEL
- CPAHs ABOVE MTCA METHOD A CLEANUP LEVEL
- GRPH/DRPH/ORPH ABOVE MTCA METHOD A CLEANUP LEVEL
- TOTAL ARSENIC ABOVE MTCA METHOD A CLEANUP LEVEL
- PENTACHLOROPHENOL ABOVE MTCA B; CARCINOGEN STANDARD FORMULA VALUE

CVOC	CHLORINATED VOLATILE ORGANIC COMPOUNDS
CPAH	CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
GRPH	GASOLINE-RANGE PETROLEUM HYDROCARBONS
DRPH	DIESEL-RANGE PETROLEUM HYDROCARBONS
ORPH	OIL-RANGE PETROLEUM HYDROCARBONS
MTCA	WASHINGTON STATE MODEL TOXICS CONTROL ACT

GROUNDWATER ANALYTICAL DATA NOT AVAILABLE FOR BORING P05

SoundEarth Strategies
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DATE: 02/08/13
DRAWN BY: NAC
CHECKED BY: CGC
CAD FILE: 0355-073_2013_GD

PROJECT NAME: BRYANT BUILDING PROPERTY
PROJECT NUMBER: 0355-073
STREET ADDRESS: 1101-1137 NORTHEAST BOAT STREET
CITY, STATE: SEATTLE, WASHINGTON

REGION:

0 40 80 160
APPROXIMATE SCALE IN FEET

FIGURE 5
GROUNDWATER RESULTS MAP
MTCA CLEANUP LEVEL EXCEEDANCES

P:\0355 SEATTLE PARKS & RECREATION\0355-073 BRYANT BUILDING\TECHNICAL\CAD\2013 SI\0355-073_2013_GD.DWG
2/28/2013
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TABLES

Table 1
Summary of Soil Analytical Results
Total Petroleum Hydrocarbons
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Type	Depth[1] (feet)	Compliance Status	Sample Date	Analytical Results (mg/kg)		
						GRPH[2]	DRPH[3]	ORPH[3]
BRYANT BUILDING PROPERTY (SoundEarth February 2013)								
P01	P01-04	Boring	4	Investigation	02/07/13	9	7.9	48
P02	P02-03	Boring	3	Investigation	02/07/13	**460**	160	450
P03	P03-03	Boring	3	Investigation	02/07/13	25	62	210
P04	P04-06	Boring	6	Investigation	02/07/13	<5.8	<5.4	<11
P05	P05-06	Boring	6	Investigation	02/07/13	<5.9	<5.3	<10
P06	P06-03	Boring	3	Investigation	02/07/13	<5.5	<5.7	<11
P07	P07-03	Boring	3	Investigation	02/07/13	<12	230	330
P08	P08-02	Boring	2	Investigation	02/07/13	<8.5	<6.3	14
P09	P09-04	Boring	4	Investigation	02/07/13	<6.4	25	88
P10	P10-12	Boring	12	Investigation	02/08/13	**430**	28	18
	P10-16	Boring	16	Investigation	02/08/13	<5.4	<5.6	<11
P11	P11-10	Boring	10	Investigation	02/08/13	<5.2	<5.5	<11
MTCA Method A Soil Cleanup Level[4]						**100/30[a]**	**2,000**	**2,000**

NOTES:

Red denotes concentration exceeds MTCA Method A Soil Cleanup Level.
Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.
[1]Depth in feet below ground surface.
[2]Analyzed by Method NWTPH-Gx.
[3]Analyzed by Method NWTPH-Dx.
[4]MTCA Cleanup Regulation, Table 740-1 Method A Cleanup Levels for Soil of Chapter 174-340-900 of the Washington Administrative Code.
[a]100 mg/kg when benzene is not present and 30 mg/kg when benzene is present.

< = not detected at a concentration exceeding the laboratory reporting limit
DRPH = diesel-range petroleum hydrocarbons
GRPH = gasoline-range petroleum hydrocarbons
mg/kg = milligrams per kilogram
MTCA = Washington State Model Toxics Control Act
NWTPH = Northwest Total Petroleum Hydrocarbons
ORPH = oil-range petroleum hydrocarbons
SoundEarth = SoundEarth Strategies, Inc.

Table 2
Summary of Soil Analytical Results - Volatile Organic Compounds
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Type	Depth (feet bgs)	Compliance Status	Sample Date	Sampled By	Analytical Results[1] (milligrams per kilogram)												
							Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1,1-Trichloroethane	1,2-Dibromoethane (EDB)	cis-1,2-Dichloroethene	Methylene chloride	Naphthalene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl chloride
BRYANT BUILDING PROPERTY																			
P01	P01-04	Boring	4	Investigation	02/07/13	SoundEarth	0.015	0.0029	<0.0016	<0.0032	<0.0016	<0.0016	<0.0016	<0.0031	<0.0078	<0.0016	<0.0016	<0.0016	<0.0016
P02	P02-03	Boring	3	Investigation	02/07/13	SoundEarth	0.0038	0.016	0.0047	0.0401	<0.0011	<0.0011	<0.0011	<0.0023	0.025	<0.0011	<0.0011	<0.0011	<0.0011
P03	P03-03	Boring	3	Investigation	02/07/13	SoundEarth	0.0067	0.0027	0.0047	0.0217	<0.0010	<0.0011	<0.0011	<0.0021	<0.0052	<0.0011	<0.0010	<0.0011	<0.0011
P04	P04-06	Boring	6	Investigation	02/07/13	SoundEarth	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0011	0.0036	<0.0019	<0.0048	<0.0011	<0.0010	**0.045**	<0.0011
P05	P05-06	Boring	6	Investigation	02/07/13	SoundEarth	<0.0011	0.0013	<0.0011	<0.0022	<0.0011	<0.0011	<0.0011	<0.0022	<0.0055	<0.0011	<0.0011	0.016	<0.0011
P06	P06-03	Boring	3	Investigation	02/07/13	SoundEarth	<0.0011	<0.0011	<0.0011	<0.0022	<0.0011	<0.0011	0.0069	<0.0022	<0.0055	<0.0011	<0.0011	<0.0011	<0.0011
P07	P07-03	Boring	3	Investigation	02/07/13	SoundEarth	<0.0015	<0.0015	<0.0015	<0.0030	<0.0015	<0.0015	<0.0015	<0.0030	<0.0074	<0.0015	<0.0015	<0.0015	<0.0015
P08	P08-02	Boring	2	Investigation	02/07/13	SoundEarth	<0.0013	<0.0013	<0.0013	<0.0026	<0.0013	<0.013	<0.013	<0.0026	<0.0066	<0.0013	<0.0013	<0.0013	<0.0013
P09	P09-04	Boring	4	Investigation	02/07/13	SoundEarth	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0020	<0.0049	<0.0010	<0.0010	<0.0010	<0.0010
	P10-12	Boring	12	Investigation	02/08/13	SoundEarth	0.0040	0.0050	<0.0010	0.0046	<0.0011	<0.0011	<0.0011	<0.0022	<0.0056	<0.0011	<0.0011	<0.0011	<0.0011
P10	P10-16	Boring	16	Investigation	02/08/13	SoundEarth	0.0011	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	0.0021	<0.0048	<0.0010	<0.0010	<0.0010	<0.0010
P11	P11-10	Boring	10	Investigation	02/08/13	SoundEarth	<0.0010	<0.0010	<0.0010	<0.0020	<0.0010	<0.0010	<0.0010	<0.0019	<0.0048	<0.0010	<0.0010	<0.0010	<0.0010
MTCA Cleanup Level for Soil							**0.03[a]**	**7[a]**	**6[a]**	**9[a]**	**2[a]**	**0.005[a]**	**160[b]**	**0.02[a]**	**5[a]**	**0.05[a]**	**1,600[b]**	**0.03[a]**	**0.67[b]**

NOTES:

Red denotes concentration exceeds MTCA Soil Cleanup Level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

[1]Analyzed by U.S. Environmental Protection Agency Method 8260C.

[a]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method A, Unrestricted Land Use, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

[b]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, CLARC Web site <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

[c]MTCA, Chapter 173-340 WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculation

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 3
Summary of Soil Analytical Results - Metals
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Type	Depth (feet bgs)	Compliance Status	Sample Date	Sampled by	Analytical Results (milligrams per kilogram)							
							Arsenic[1]	Barium[1]	Cadmium[1]	Chromium[1]	Lead [1]	Mercury[2]	Selenium[1]	Silver[1]
BRYANT BUILDING PROPERTY														
P01	P01-04	Boring	4	Investigation	02/07/13	SoundEarth	15.1	177	1.8	31	132	0.05	<10	<0.8
P02	P02-03	Boring	3	Investigation	02/07/13	SoundEarth	4.9	93.4	0.5	38	81.8	0.09	<6	<0.3
P03	P03-03	Boring	3	Investigation	02/07/13	SoundEarth	8.6	149	0.7	41.1	74.9	0.10	<5	<0.3
P04	P04-06	Boring	6	Investigation	02/07/13	SoundEarth	1.2	35.7	0.4	27.6	1.5	<0.02	<5	<0.3
P05	P05-06	Boring	6	Investigation	02/07/13	SoundEarth	1.5	35.2	0.4	36.1	1.5	<0.02	<5	<0.03
P06	P06-03	Boring	3	Investigation	02/07/13	SoundEarth	0.8	40.5	0.3	23.9	2.4	<0.02	<5	<0.3
P07	P07-03	Boring	3	Investigation	02/07/13	SoundEarth	**26.9**	347	0.8	33.0	**5,570**	0.08	<9	1.0
P08	P08-02	Boring	2	Investigation	02/07/13	SoundEarth	5.7	423	0.8	26.6	124	0.07	<6	<0.4
P09	P09-04	Boring	4	Investigation	02/07/13	SoundEarth	5.3	57.3	0.7	31	48.3	0.42	<10	<0.9
P10	P10-12	Boring	12	Investigation	02/08/13	SoundEarth	1.5	35.0	0.4	21.6	2.5	<0.02	<5	<0.3
	P10-16	Boring	16	Investigation	02/08/13	SoundEarth	1.2	36.2	0.4	23.3	1.2	<0.03	<5	<0.3
P11	P11-10	Boring	10	Investigation	02/08/13	SoundEarth	5.6	37.2	0.4	31.2	1.6	<0.03	<5	<0.3
MTCA Cleanup Level for Soil							**20[a]**	**16,000[b]**	**2[a]**	**2,000[a]**	**250**	**2**	**400[b]**	**400[b]**

NOTES:

Red denotes concentration exceeds MTCA Soil Cleanup Level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

[1]Analyzed by EPA Method 7010.

[2]Analyzed by EPA Method 7470A.

[a]MTCA Cleanup Regulation, Table 740-1 Method A Soil Cleanup Levels for Unrestricted Land Uses of Chapter 173-340-900 of the WAC. Revised November 2007.

[b]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-carcinogen, Standard Formula Value, Direct contact (ingestion only), Unrestricted Land Use, CLARC Web site <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculation

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 4
Summary of Soil Analytical Results - Pentachlorophenol
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Type	Depth (feet bgs)	Compliance Status	Sample Date	Sampled By	Analytical Results[1] (milligrams per kilogram)
							Pentachlorophenol
BRYANT BUILDING PROPERTY							
P01	P01-04	Boring	4	Investigation	02/07/13	SoundEarth	<0.0068
P02	P02-03	Boring	3	Investigation	02/07/13	SoundEarth	0.0062[J]
P03	P03-03	Boring	3	Investigation	02/07/13	SoundEarth	0.0038[J]
P04	P04-06	Boring	6	Investigation	02/07/13	SoundEarth	<0.0066
P05	P05-06	Boring	6	Investigation	02/07/13	SoundEarth	<0.0065
P06	P06-03	Boring	3	Investigation	02/07/13	SoundEarth	<0.0068
P07	P07-03	Boring	3	Investigation	02/07/13	SoundEarth	<0.011
P08	P08-02	Boring	2	Investigation	02/07/13	SoundEarth	<0.0076
P09	P09-04	Boring	4	Investigation	02/07/13	SoundEarth	<0.0071
P10	P10-12	Boring	12	Investigation	02/08/13	SoundEarth	<0.0067
	P10-16	Boring	16	Investigation	02/08/13	SoundEarth	<0.0070
P11	P11-10	Boring	10	Investigation	02/08/13	SoundEarth	<0.0067
MTCA Method B Cleanup Level for Soil[2]							**2.5**

NOTES:

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

[1]Analyzed by U.S. Environmental Protection Agency Method SW8041.

[2]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use.

Laboratory Note:

J = Value reported is an estimate.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

CLARC = Cleanup Levels and Risk Calculation

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 5
Summary of Soil Analytical Results - cPAHs
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Sample Location	Sample Identification	Date Sampled	Sample Depth (feet bgs)	Analytical Results (mg/kg)						
				Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Total Benzofluoranthenes	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Carcinogenic PAHs***
SoundEarth Strategies 2013 Subsurface Investigation										
P01	P01-04	02/07/13	4	0.058	0.073	0.064	0.110	0.044	0.014	0.087
P02	P02-03	02/07/13	3	0.150	0.240	**0.160**	0.320	0.100	0.029	**0.222**
P03	P03-03	02/07/13	3	0.160	0.190	**0.160**	0.330	0.120	0.041	**0.227**
P04	P04-06	02/07/13	6	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
P05	P05-06	02/07/13	6	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
P06	P06-03	02/07/13	3	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047
P07	P07-03	02/07/13	3	0.020	0.049	0.013	0.032	0.0057	0.003	0.020
P08	P08-02	02/07/13	2	0.018	0.029	0.022	0.044	0.018	0.0059	0.031
P09	P09-04	02/07/13	4	0.020	0.038	0.025	0.051	0.018	0.0054	0.035
P10	P10-12	02/07/13	12	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048
	P10-16	02/07/13	16	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046
P11	P11-10	02/07/13	10	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045
TEF[1]				0.1	0.01	1	0.10	0.1	0.1	
MTCA Cleanup Level for Soil[2]				***	***	**0.1**	***	***	***	**0.1**

NOTES:

Red denotes concentration exceeds MTCA cleanup level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

Analyzed by U.S. Environmental Protection Agency Method 8270D SIM.

[1]TEF = Toxicity Equivalency Factor for cPAHs relative to benzo(a)pyrene under WAC 173-340-708(e).

[2]MTCA Method A Soil Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

***Toxicity Equivalency Factors used for the mixture of cPAH compounds for reference to MTCA Method A cleanup level for benzo(a)pyrene of 0.1 ppm in accordance with WAC 173-340-708(e).

Total carcinogenic PAHs result is calculated by summing the results of multiplying the reported concentrations of each cPAH compound by its respective TEF.

< = not detected at a concentration exceeding the laboratory reporting limit

bgs = below ground surface

cPAH = carcinogenic polycyclic aromatic hydrocarbon

mg/kg = milligrams per kilogram

MTCA = Washington State Model Toxics Control Act

pah = polycyclic aromatic hydrocarbon

ppm = parts per million

TEF = toxicity equivalency factor

WAC = Washington Administrative Code

Table 6
Summary of Soil Analytical Results - Total Metals
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

							Analytical Results (milligrams per kilogram)[1]																		
Location	**Sample ID**	**Sample Type**	**Depth** (feet bgs)	**Compliance Status**	**Sample Date**	**Sampled By**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Boron**	**Cadmium**	**Chromium**	**Coblat**	**Copper**	**Lead**	**Magnesium**	**Manganese**	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Tin**	**Vanadium**	**Zinc**
P07	P07-03	Boring	3	Investigation	02/07/13	SoundEarth	296	20	403	<0.2	5	1.0	35.9	5.5	1,170	**6,860**	2,890	372	0.12	<0.9	25	<9	1.1	514	**32.6**	333
MTCA Cleanup Level for Soil							**NE**	**20[a]**	**16,000[b]**	**160[b]**	**16,000[b]**	**2[a]**	**2,000[a]**	**NE**	**3,200[b]**	**250[a]**	**NE**	**11,000[b]**	**2[a]**	**400[b]**	**NE**	**400[b]**	**400[b]**	**48,000[b]**	**5.6[b]**	**24,000[b]**

NOTES:
Red denotes concentration exceeds MTCA Soil Cleanup Level.
Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.
[1]Analyzed by U.S. Environmental Protection Agency Method 6010C/7471A.
[a]MTCA Cleanup Regulation, Chapter 173-340 WAC, CLARC, Soil, Method A, Unrestricted Land Use, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.
[b]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Soil, Method B, Non-Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

-- = not analyzed
< = not detected at a concentration exceeding the laboratory reporting limit
bgs = below ground surface
CLARC = Cleanup Levels and Risk Calculation
MTCA = Washington State Model Toxics Control Act
NE = cleanup level not established
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Admininstrative Code

Table 7
Summary of Groundwater Analytical Results - Total Petroleum Hydrocarbons
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Type	Sample Date	Sampled By	Analytical Results (µg/L)			
					GRPH[1]	DRPH[2]	ORPH[2]	Benzene[3]
BRYANT BUILDING PROPERTY - EXISTING GROUNDWATER MONITORING WELLS								
MW05	MW05-20130205	Groundwater	02/05/13	SoundEarth	<250	<100	<200	<0.20
MW11	MW11-20130205	Reconnaissance	02/05/13	SoundEarth	**920**	**3,800**	500	<0.20
MW14	MW14-20130205	Reconnaissance	02/05/13	SoundEarth	<250	130	<200	<0.20
MW16	MW16-20130205	Groundwater	02/05/13	SoundEarth	<250	<100	<200	<0.20
BRYANT BUILDING PROPERTY - SOIL BORING RECONNAISSANCE GROUNDWATER SAMPLES								
P01	P01-20130207	Reconnaissance	02/07/13	SoundEarth	<250	500	**920**	<0.20
P02	P02-20130207	Reconnaissance	02/07/13	SoundEarth	<250	190	**660**	<0.20
P03	P03-20130207	Reconnaissance	02/07/13	SoundEarth	<250	<100	<200	<0.20
P04	P04-20130207	Reconnaissance	02/07/13	SoundEarth	<250	190	<200	<0.20
P06	P06-20130207	Reconnaissance	02/07/13	SoundEarth	<250	<100	<200	0.72
P07	P07-20130207	Reconnaissance	02/07/13	SoundEarth	<250	<100	<200	<0.20
P08	P08-20130207	Reconnaissance	02/07/13	SoundEarth	<250	<100	<200	<0.20
P09	P09-20130207	Reconnaissance	02/07/13	SoundEarth	<250	<100	<200	<0.20
P10	P10-20130208	Reconnaissance	02/08/13	SoundEarth	<250	<100	<200	0.38
P11	P11-20130208	Reconnaissance	02/08/13	SoundEarth	<250	140	**1,100**	0.35
MTCA Method A Cleanup Level[4]					**800/1,000[a]**	**500**	**500**	**5**

NOTES:

Red denotes concentration exceeds MTCA Method A Cleanup Level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

[1]Analyzed by Method NWTPH-Gx.

[2]Analyzed by Method NWTPH-Dx.

[3]Analyzed by U.S. Environmental Protection Agency Method 8260C.

[4]MTCA Cleanup Regulation, Table 720-1 Method A Groundwater Cleanup Levels for Groundwater of Chapter 173-340 of the Washington Administrative Code. Revised November 2007.

[a]800 µg/L when benzene is present, 1,000 µg/L when benzene is not present.

< = not detected at a concentration exceeding the laboratory reporting limit

µg/L = micrograms per liter

DRPH = diesel-range petroleum hydrocarbons

GRPH = gasoline-range petroleum hydrocarbons

MTCA = Washington State Model Toxics Control Act

NWTPH = Northwest Total Petroleum Hydrocarbons

ORPH = oil-range petroleum hydrocarbons

SoundEarth = SoundEarth Strategies, Inc.

Table 8
Summary of Groundwater Analytical Results - Volatile Organic Compounds
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample Type	Sample Date	Sampled By	Analytical Results (micrograms per liter)[1]													
				Benzene	Toluene	Ethylbenzene	Total Xylenes	1,1,1-Trichloroethane	1,2-Dichloroethane (EDC)	cis-1,2-Dichloroethene	Ethylene dibromide (EDB) [Dibromomethane]	Methylene Chloride	Naphthalene	Tetrachloroethene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride
BRYANT BUILDING PROPERTY - EXISTING GROUNDWATER MONITORING WELLS																	
MW05	Groundwater	02/05/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	1.1	<0.20
MW11	Reconnaissance	02/05/13	SoundEarth	<0.20	0.21	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
MW14	Reconnaissance	02/05/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
MW16	Groundwater	02/05/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
BRYANT BUILDING PROPERTY - SOIL BORING RECONNAISSANCE GROUNDWATER SAMPLES																	
P01	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
P02	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	0.27	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	**1.5**
P03	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	**17**	<0.20	<1.0	<0.50	<0.20	<0.20	**13**	**0.55**
P04	Reconnaissance	02/07/13	SoundEarth	<0.20	0.48	0.45	3.1	<0.20	<0.20	4.2	<0.20	<1.0	<0.50	<0.20	<0.20	**5.6**	<0.20
P06	Reconnaissance	02/07/13	SoundEarth	0.72	<0.20	<0.20	<0.60	<0.20	<0.20	**49**	<0.20	<1.0	<0.50	<0.20	0.55	**180**	**0.49**
P07	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	**70**	<0.20	<1.0	<0.50	<0.20	1.2	3.0	**7.1**
P08	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	1.8	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	**0.26**
P09	Reconnaissance	02/07/13	SoundEarth	<0.20	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
P10	Reconnaissance	02/08/13	SoundEarth	0.38	<0.20	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
P11	Reconnaissance	02/08/13	SoundEarth	0.35	0.25	<0.20	<0.60	<0.20	<0.20	<0.20	<0.20	<1.0	<0.50	<0.20	<0.20	<0.20	<0.20
MTCA Cleanup Level				**5[a]**	**1,000[a]**	**700[a]**	**1,000[a]**	**200[a]**	**5[a]**	**16[c]**	**0.01[a]**	**5[a]**	**160[a]**	**5[a]**	**160[b]**	**5[a]**	**0.2[a]**

NOTES:
Red denotes concentration exceeds MTCA cleanup level.
Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.
[1]Analyzed with U.S. Environmental Protection Agency Method 8260.
[a]MTCA Cleanup Regulation, Table 720-1 Method A Cleanup Levels for Groundwater of Chapter 173-340-900 of WAC. Revised November 2007.
bMTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Carcinogen, Standard Formula Value, CLARC Web site <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.
[c]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Groundwater, Method B, Non-Carcinogen, Standard Formula Value, CLARC Web site <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

< = not detected at a concentration exceeding the laboratory reporting limit
CLARC = Cleanup Levels and Risk Calculation
MTCA = Washington State Model Toxics Control Act
SoundEarth = SoundEarth Strategies, Inc.
WAC = Washington Administrative Code

Table 9
Summary of Groundwater Analytical Results - Metals
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Date	Sampled By	Analytical Results (micrograms per liter)								
				Total Arsenic [1]	Total Barium [1]	Total Cadmium [1]	Total Chromium [1]	Total Lead [1]	Total Mercury[2]	Total Selenium[1]	Total Silver[1]	Dissolved Arsenic [1]
BRYANT BUILDING - EXISTING GROUNDWATER MONITORING WELLS												
MW05	MW05-20130205	02/05/13	SoundEarth	**60**	62	<2	<5	<0.1	<0.1	<50	<3	**24.0**
MW11[r]	MW11-20130205	02/05/13	SoundEarth	3.0	34	<2	<5	0.4	<0.1	<50	<3	--
MW14[r]	MW14-20130205	02/05/13	SoundEarth	**70**	71	<2	<5	<0.1	<0.1	<50	<3	**22.3**
MW16	MW16-20130205	02/05/13	SoundEarth	**8.6**	277	<2	<5	3.7	<0.1	<50	<3	1.3
BRYANT BUILDING - SOIL BORING RECONNAISSANCE GROUNDWATER SAMPLES												
P01	P01-20130207	02/07/13	SoundEarth	2.3	37	<2	<5	<0.1	<0.1	<50	<3	--
P02	P02-20130207	02/07/13	SoundEarth	1.1	143	<2	<5	1.0	<0.1	<50	<3	--
P03	P03-20130207	02/07/13	SoundEarth	1.7	21	<2	<5	<0.1	<0.1	<50	<3	--
P04	P04-20130207	02/07/13	SoundEarth	1.6	45	<2	<5	<0.1	<0.1	<50	<3	--
P06	P06-20130207	02/07/13	SoundEarth	1.8	48	<2	<5	<0.1	<0.1	<50	<3	--
P07	P07-20130207	02/07/13	SoundEarth	1.4	95	<2	<5	0.1	<0.1	<50	<3	--
P08	P08-20130207	02/07/13	SoundEarth	0.4	34	<2	<5	<0.1	<0.1	<50	<3	--
P09	P09-20130207	02/07/13	SoundEarth	0.3	67	<2	<5	<0.1	<0.1	<50	<3	--
P10	P10-20130208	02/08/13	SoundEarth	3.6	31	<2	<5	<0.1	<0.1	<50	<3	--
P11	P11-20130208	02/08/13	SoundEarth	2.6	48	<2	<5	<0.1	<0.1	<50	<3	--
MTCA Cleanup Level for Groundwater				**5[a]**	**3,200[b]**	**5[a]**	**50[a]**	**15[a]**	**2[a]**	**80[b]**	**80[b]**	**5[a]**

NOTES:

Red denotes concentration exceeds MTCA cleanup level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

[1]Analyzed by EPA Method 7010.

[2]Analyzed by EPA Method 7470A.

[a]MTCA Cleanup Regulation, Table 720-1 Method A Cleanup Levels for Groundwater of Chapter 173-340-900 of the Washington Administrative Code. Revised November 2007.

[b]MTCA Cleanup Regulation, Chapter 173-340 of WAC, CLARC, Method B, Non-carcinogen, Standard Formula Value for Groundwater, CLARC Web site <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.

[r] Groundwater samples collected from wells MW11 and MW14 are considered reconnaissance samples because the wells were pumped dry during low-flow purging.

< = not detected at a concentration exceeding the laboratory reporting limit

-- = not analyzed

CLARC = Cleanup Levels and Risk Calculations

EPA = U.S. Environmental Protection Agency

MTCA = Washington State Model Toxics Control Act

SoundEarth = SoundEarth Strategies, Inc.

WAC = Washington Administrative Code

Table 10
Summary of Groundwater Analytical Results - Pentachlorophenol
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Location	Sample ID	Sample Date	Sampled By	Analytical Results (micrograms per liter)[1] Pentachlorophenol
BRYANT BUILDING - EXISTING GRONDWATER MONITORING WELLS				
MW05	MW05-20130205	02/05/13	SoundEarth	<0.25
MW11[r]	MW11-20130205	02/05/13	SoundEarth	<0.25
MW14[r]	MW14-20130205	02/05/13	SoundEarth	**0.40**
MW16	MW16-20130205	02/05/13	SoundEarth	<0.25
BRYANT BUILDINGS - SOIL BORING RECONNAISSANCE GROUNDWATER SAMPLES				
P01	P01-20130207	02/07/13	SoundEarth	<0.25
P02	P02-20130207	02/07/13	SoundEarth	<0.25
P03	P03-20130207	02/07/13	SoundEarth	<0.25
P04	P04-20130207	02/07/13	SoundEarth	<0.25
P06	P06-20130207	02/07/13	SoundEarth	<0.25
P07	P07-20130207	02/07/13	SoundEarth	<0.25
P08	P08-20130207	02/07/13	SoundEarth	<0.25
P09	P09-20130207	02/07/13	SoundEarth	<0.25
P10	P10-20130208	02/08/13	SoundEarth	<0.25
P11	P11-20130208	02/08/13	SoundEarth	<0.25
MTCA Method B Cleanup Level[2]				**0.219**

NOTES:
Red denotes concentration exceeds MTCA cleanup level.
Blue denotes analyte not detected above laboratory reporting limit; however, reporting limit is higher than the listed MTCA B Cleanup Level.
Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.
[1]Analyzed by U. S. Environmental Protection Agency Method 8041.
[2]Cleanup Levels and Risk Calculations (CLARC), Groundwater, Method B,Carcinogen, Standard Formula Value, CLARC Website <https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx>.
[r] Groundwater samples collected from wells MW11 and MW14 are considered reconnaissance samples because the wells were pumped dry during low-flow purging.

< = not detected at a concentration exceeding the laboratory reporting limit
CLARC = Cleanup Levels and Risk Calculation
MTCA = Washington State Model Toxics Control Act
SoundEarth = SoundEarth Strategies, Inc.

Table 11
Summary of Groundwater Analytical Results - cPAHs
Bryant Building Property
1101-1137 Northeast Boat Street
Seattle, Washington

Sample Location	Sample Identification	Date Sampled	**Analytical Results** (micrograms per liter)						
			Benzo(a)anthracene	Chrysene	Benzo(a)pyrene	Total Benzofluoranthenes	Indeno(1,2,3-cd)pyrene	Dibenzo(a,h)anthracene	Total Carcinogenic PAHs***
BRYANT BUILDING - EXISTING GROUNDWATER MONITORING WELLS									
MW05	MW05-20130205	02/05/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
MW11[r]	MW11-20130205	02/05/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
MW14[r]	MW14-20130205	02/05/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
MW16	MW16-20130205	02/05/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
BRYANT BUILDING - SOIL BORING RECONNAISSANCE GROUNDWATER SAMPLES									
P01	P01-20130207	02/07/13	0.21	0.34	<0.10	0.40	0.10	<0.10	0.064
P02	P02-20130207	02/07/13	0.21	0.34	**0.19**	0.40	0.1[j]	<0.10	**0.26**
P03	P03-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P04	P04-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P06	P05-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P07	P07-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P08	P08-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P09	P09-20130207	02/07/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P10	P10-20130208	02/08/13	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.1
P11	P11-20130208	02/08/13	0.05	0.18	<0.10	<0.20	<0.10	<0.10	0.0068
TEF[1]			0.1	0.01	1	0.10	0.1	0.1	
MTCA Cleanup Level for Soil[2]			***	***	**0.1**	***	***	***	**0.1**

NOTES:

Red denotes concentration exceeds MTCA cleanup level.

Analyses performed by Analytical Resources, Incorporated in Tukwila, Washington.

Analyzed by U.S. Environmental Protection Agency Method 8270D-SIM.

[1]TEF = Toxicity Equivalency Factor for cPAHs relative to benzo(a)pyrene under WAC 173-340-708(e).

[2]MTCA Method A Soil Cleanup Levels, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, revised November 2007.

***Toxicity Equivalency Factors used for the mixture of cPAH compounds for reference to MTCA Method A cleanup level for benzo(a)pyrene of 0.1 ppm in accordance with WAC 173-340-708(e).

Total carcinogenic PAHs result is calculated by summing the results of multiplying the reported concentrations of each cPAH compound by its respective TEF.

[r] Groundwater samples collected from wells MW11 and MW14 are considered reconnaissance samples because the wells were pumped dry during low-flow purging.

Laboratory Note:

[j] Reported value is an estimate.

< = not detected at a concentration exceeding the laboratory reporting limit

cPAH = carcinogenic polycyclic aromatic hydrocarbon

MTCA = Washington State Model Toxics Control Act

pah = polycyclic aromatic hydrocarbon

ppm = parts per million

TEF = toxicity equivalency factor

WAC = Washington Administrative Code

ATTACHMENT A
BORING LOGS

SoundEarth Strategies

BORING LOG P01

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Asphalt
Well Location N/S: ~ 87 feet south of northeast corner of Bryant Building.
Well Location E/W: ~ 215 feet east of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 4 feet bgs
Water Depth After Completion: 5.1 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**2 inches asphalt surface.**	
			30	0.0	P01-04	SM		**Damp, medium dense, silty fine SAND with some gravel, brown and gray, contains brick fragments, no hydrocarbon odor. (30-60-10). Fill.**	
5						PT		**Saturated to wet, wood debris with a 2-inch-thick lens of clay at ~5.5 feet deep. No hydrocarbon odor. Fill.**	
			100	0.0	P01-06	SW		**Wet, medium dense, medium SAND with trace silt, gray, no hydrocarbon odor. (5-95-0).**	
						PT		**Wet, brown sawdust. Fill.**	
			100	0.0	P01-10	SM		**Wet, very dense, silty SAND with some gravel, gravel, no hydrocarbon odor. (30-60-10).**	
10								**Boring terminated at 10 feet bgs, abandoned with bentonite chips, and patched with concrete.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	10	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~8.5 feet bgs. Slight potential organic sheen observed on

SoundEarth Strategies

BORING LOG P02

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 98 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 1155 feet West of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 3 feet bgs
Water Depth After Completion: 4 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
			100	0.0	P02-03	**SM**		**Moist (wet below ~3 feet bgs), medium dense, silty fine SAND with some gravel, brown and gray, contains brick fragments, no hydrocarbon odor. (40-50-10). Fill.**	
5						**SM**		**Saturated, silty SAND with wood debris, gray, no hydrocarbon odor. (30-60-10). Fill.**	
			100			**SW**		**Saturated, medium dense, fine to medium SAND with some wood chips and shell fragments, gray, no hydrocarbon odor. (10-85-5). Fill.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	12	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~8.5 feet bgs.

SoundEarth Strategies

Project:	Bryant Building Property
Project Number:	0355-073-02
Logged by:	CGC
Date Started:	02/07/13
Surface Conditions:	Concrete
Well Location N/S:	~ 98 feet South of northeast corner of Bryant Building.
Well Location E/W:	~ 1155 feet West of northeast corner of Bryant Building.
Reviewed by:	RKB
Date Completed:	02/07/13

BORING LOG P02

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 3 feet bgs
Water Depth After Completion: 4 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
				0.0	P02-08				
10			100					**Saturated, dense, fine to medium SAND, gray, no hydrocarbon odor. (5-95-0).**	
						SM		**Saturated, dense, lens of silty SAND, gray, no hydrocarbon odor. (20-80-0).**	
				0.0	P02-12	**SW**		**Saturated, dense, fine to medium SAND, gray, no hydrocarbon odor. (5-95-0).**	
								Boring terminated at 12 feet bgs, abandoned with bentonite chips, and patched with concrete.	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	12	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~8.5 feet bgs.

SoundEarth Strategies

BORING LOG P03

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 100 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 21 feet West of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 2 feet bgs
Water Depth After Completion: 3.9 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
						SM		**Damp-moist, medium dense, silty fine to medium SAND with some gravel, brown, no hydrocarbon odor. (30-60-10). Fill.**	
						SW		**Moist, medium dense, lense of SAND with some gravel and red brick. Fill.**	
			100	0.0	P03-03			**Wet, medium dense, silty SAND with some gravel, brown & gray, no hydrocarbon odor. (40-50-10). Fill.**	
5			100			**SW**		**Wet, dense, fine to medium SAND, gray, no hydrocarbon odor. (5-90-5).**	
				0.0	P03-08	**SW**		**Saturated, dense, fine to coarse SAND, gray, no hydrocarbon odor. (5-95-0).**	
			100			**SM**		**Saturated, dense, lens of silty fine to medium SAND, gray, no hydrocarbon odor. (20-80-0).**	
				0.0	P03-10	**SW**		**Saturated, dense, fine to coarse SAND, gray, no hydrocarbon odor. (5-95-0).**	
10								**Boring terminated at 10 feet bgs, abandoned with bentonite chips, and patched with concrete.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	10	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~4.5 feet bgs.

SoundEarth Strategies

BORING LOG P04

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 11 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 52 feet East of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 2 feet bgs
Water Depth After Completion: 5.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
						SM		**Damp, medium dense, silty fine SAND with some gravel, brown, no hydrocarbon odor. (20-70-10).**	
					P04-03	**SW**		**Saturated, medium dense, fine to medium SAND with trace silt and gravel, brown, no hydrocarbon odor. (5-90-5).**	
			100	0.0		**SW**		**Saturated, medium dense, fine to medium SAND with subrounded gravel and trace silt, gray, no hydrocarbon odor. (5-85-10).**	
5			100	0.0	P04-06	**SM**		**Wet, very dense, silt fine to medium silty SAND, gray, no hydrocarbon odor. (20-70-10).**	
								Drilling refusal and boring terminated at 6 feet bgs, abandoned with bentonite chips, and patched with concrete.	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs	
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches	
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A		
Total Boring Depth:	6	feet bgs	**Surface Seal:**	N/A		
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A		
State Well ID No.:	N/A		**Monument Type:**	N/A		

SoundEarth Strategies

BORING LOG P05

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 8 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 47 feet East of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 1 feet bgs
Water Depth After Completion: 4.7 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
						SM		**Damp, medium dense, silty fine SAND with some gravel, brown, no hydrocarbon odor. (20-60-10). Fill.**	
								Wet to saturated, dense,silty fine to medium SAND with some gravel, gray, no hydrocarbon odor. (30-60-10).	
					P05-03	**SW**		**Wet, dense, gravelly SAND with some silt, gray, no hydrocarbon odor. (10-60-40). Fill.**	
			100	0.0		**SM**		**Wet, very dense, silty fine to medium SAND with some gravel, gray, no hydrocarbon odor. (30-60-10).**	
5			100	0.0	P05-06	**GW**		**Saturated, very dense, sandy subrounded GRAVEL with trace silt, gray, no hydrocarbon odor. (5-35-60).**	
								Drilling refusal and boring terminated at 6 feet bgs, abandoned with bentonite chips, and patched with concrete.	

Drilling Co./Driller:	Holocene/Matt	
Drilling Equipment:	Direct Push Probe	
Sampler Type:	Plastic core tube	
Hammer Type/Weight:	N/A	lbs
Total Boring Depth:	6	feet bgs
Total Well Depth:	N/A	feet bgs
State Well ID No.:	N/A	

Well/Auger Diameter:	N/A	inches
Well Screened Interval:	N/A	feet bgs
Screen Slot Size:	N/A	inches
Filter Pack Used:	N/A	
Surface Seal:	N/A	
Annular Seal:	N/A	
Monument Type:	N/A	

Notes/Comments:
Fill/native interface interpreted at ~3 feet bgs (Potential tank hold backfill in upper ~3 feet).

SoundEarth Strategies

BORING LOG P06

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 32 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 38 feet East of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 2 feet bgs
Water Depth After Completion: 1.8 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
						SM		**Damp to moist, medium dense, silty fine SAND, brown & gray, no hydrocarbon odor. (25-70-5). Fill.**	
			100	0.0	P06-03	**SW**		**Wet to saturated, very dense, fine to medium SAND with some gravel and silt, gray, no hydrocarbon odor. (10-80-10).**	
5									
			100	0.0	P06-08	**SW**		**Wet, very dense, medium to coarse SAND with some gravel and silt, gray, no hydrocarbon odor. (10-80-10).**	
								Drilling refusal and boring terminated at 8 feet bgs, abandoned with bentonite chips, and patched with concrete.	
10									

Drilling Co./Driller:	Holocene/Matt	**Well/Auger Diameter:**	N/A	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push Probe	**Well Screened Interval:**	N/A	feet bgs	
Sampler Type:	Plastic core tube	**Screen Slot Size:**	N/A	inches	
Hammer Type/Weight:	N/A lbs	**Filter Pack Used:**	N/A		
Total Boring Depth:	8 feet bgs	**Surface Seal:**	N/A		
Total Well Depth:	N/A feet bgs	**Annular Seal:**	N/A		
State Well ID No.:	N/A	**Monument Type:**	N/A		

SoundEarth Strategies

BORING LOG P07

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Asphalt
Well Location N/S: ~ 108 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 68 feet East of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 3.5 feet bgs
Water Depth After Completion: 4.6 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**2 inches asphalt surface.**	
						SM		**Damp, medium dense, silty fine SAND and angular gravel, brown & gray, no hydrocarbon odor. (25-60-15). Fill.**	
			100		P07-03	**SM**		**Moist, medium dense, silty fine SAND and angular gravel with brick fragments, brown & gray, no hydrocarbon odor. (25-60-15). Fill.**	
				0.0		**PT**		**Wet, wood debris and sawdust, gray and black. Fill.**	
5			100			**SW**		**Saturated, dense, fine to medium SAND with some gravel, gray, no hydrocarbon odor. (5-85-10).**	
				0.0	P07-08	**SW**		**Wet, dense, silty fine SAND, gray, no hydrocarbon odor. (30-70-0).**	
10				0.0		**CL**		**Wet, soft, silty CLAY, with some fine sand, gray, no hydrocarbon odor. (80-20-0-0).**	
				0.0		**SW**		**Saturated, dense, medium to coarse SAND with some gravel, gray, no hydrocarbon odor. (5-85-10).**	
								Boring terminated at 12 feet bgs, abandoned with bentonite chips, and patched with concrete.	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	12	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~5 feet bgs.

SoundEarth Strategies

BORING LOG P08

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Concrete
Well Location N/S: ~ 42 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 122 feet West of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 2.0 feet bgs
Water Depth After Completion: 2.5 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**3 inches concrete surface.**	
			100	0.0	P08-02	**SM**		**Damp (wet at ~2.5 feet bgs), medium dense, silty fine SAND with some gravel, brown & gray, contains some wood debris, no hydrocarbon odor. (25-60-15). Fill.**	
				0.0		**SW**		**Wet, medium dense, fine to medium SAND with trace silt, gray, no hydrocarbon odor. (5-90-0).**	
			100	0.0 0.0	P08-06	**ML**		**Wet, very dense, SILT with some fine sand, gray, no hydrocarbon odor. (90-10-0).**	
5								**Drilling refusal and boring terminated at 6 feet bgs, abandoned with bentonite chips, and patched with concrete.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	6	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~2.5 feet bgs.

SoundEarth Strategies

BORING LOG P09

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/07/13
Surface Conditions: Asphalt
Well Location N/S: ~ 82 feet South of northeast corner of Bryant Building.
Well Location E/W: ~ 151 feet East of northeast corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/07/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 4.5 feet bgs
Water Depth After Completion: 4.3 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**2 inches asphalt surface.**	
			100	0.0		SM		**Damp, medium dense, silty SAND with gravel, brown & gray, no hydrocarbon odor.(30-50-20). Fill.**	
						SW		**~6 inch thick lens of fine to medium SAND, brown, no hydrocarbon odor. (5-95-0). Fill.**	
						Concrete		**~ 3-inch-thick concrete slab.**	
				0.0	P09-04	ML		**Damp, medium dense, silty SAND with some gravel, brown, no hydrocarbon odor. (30-60-10). Fill.**	
5			100	0.0		SW		**Wet to saturated, dense, fine SAND with some silt, contains some wood debris, gray no hydrocarbon odor. (10-90-0). Fill.**	
				0.0	P09-08	SW		**Saturated, dense, fine to coarse SAND with some silt, gray, no hydrocarbon odor. (10-90-0). Fill.**	
			100			ML		**Wet, dense, SILT with trace fine sand, gray, no hydrocarbon. (95-5-0).**	
				0.0	P09-10	SW		**Wet, very dense, fine to medium SAND with some gravel and trace silt, gray, no hydrocarbon odor. (5-80-15).**	
10								**Boring terminated at 10 feet bgs, abandoned with bentonite chips, and patched with concrete.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs	Fill/native interface interpreted at ~7 feet bgs.
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches	
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A		
Total Boring Depth:	10	feet bgs	**Surface Seal:**	N/A		
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A		
State Well ID No.:	N/A		**Monument Type:**	N/A		

SoundEarth Strategies

BORING LOG P10

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/08/13
Surface Conditions: Asphalt
Well Location N/S: ~ 7 feet North of northwest corner of Bryant Building.
Well Location E/W: ~ 80 feet West of northwest corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/08/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 11 feet bgs
Water Depth After Completion: 10.4 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**2 inches asphalt surface.**	
						SW		**Damp, medium dense, medium SAND with subrounded gravel and trace silt, brown, no hydrocarbon odor. (5-80-15). Fill.**	
			100	0.0		**SM**		**Damp (moist below ~2 feet bgs), dense, silty SAND with subrounded gravel, brown and gray, no hydrocarbon odor, (30-60-10). Fill.**	
				0.0	P10-04				
5				0.0				**~3 inch thick layer of silty SAND and gravel, dark brown, no hydrocarbon odor (40-50-10). Fill.**	
			80			**SW**		**Damp, dense, fine to medium SAND with gravel, brown, no hydrocarbon odor. (5-80-15). Fill.**	
			100		P10-08	**ML**		**Moist, soft, SILT with some fine sand, brown and gray, no hydrocarbon odor. (90-10-0).**	
				32		**SM**		**Damp to moist (wet at ~11 feet bgs), very dense, silty fine SAND with gravel, gray, slight hydrocarbon odor at ~8.5 feet bgs, strong hydrocarbon odor at ~10 to 12.5 feet bgs. (10-90-0). Fill.**	
10									

Drilling Co./Driller: Holocene/Matt
Drilling Equipment: Direct Push Probe
Sampler Type: Plastic core tube
Hammer Type/Weight: N/A lbs
Total Boring Depth: 16 feet bgs
Total Well Depth: N/A feet bgs
State Well ID No.: N/A

Well/Auger Diameter: N/A inches
Well Screened Interval: N/A feet bgs
Screen Slot Size: N/A inches
Filter Pack Used: N/A
Surface Seal: N/A
Annular Seal: N/A
Monument Type: N/A

Notes/Comments:
Fill/native interface interpreted at ~7.5 feet bgs. Hydrocarbon odor in soil observed from ~8.5 to ~12.5

SoundEarth Strategies

Project:	Bryant Building Property
Project Number:	0355-073-02
Logged by:	CGC
Date Started:	02/08/13
Surface Conditions:	Asphalt
Well Location N/S:	~ 7 feet North of northwest corner of Bryant Building.
Well Location E/W:	~ 80 feet West of northwest corner of Bryant Building.
Reviewed by:	RKB
Date Completed:	02/08/13

BORING LOG P10

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 11 feet bgs
Water Depth After Completion: 10.4 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
10			100	123	P10-12			**Damp, very dense, silty fine SAND with gravel, gray, no hydrocarbon odor. (30-40-30).**	
				0.0					
15				0.0	P10-16				
								Boring terminated at 16 feet bgs, abandoned with bentonite chips, and patched with asphalt.	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches	**Notes/Comments:**
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs	Fill/native interface interpreted at ~7.5 feet bgs. Hydrocarbon odor in soil observed from ~8.5 to ~12.5
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches	
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A		
Total Boring Depth:	16	feet bgs	**Surface Seal:**	N/A		
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A		
State Well ID No.:	N/A		**Monument Type:**	N/A		

SoundEarth Strategies

BORING LOG P11

Project: Bryant Building Property
Project Number: 0355-073-02
Logged by: CGC
Date Started: 02/08/13
Surface Conditions: Asphalt
Well Location N/S: ~ 16 feet North of northwest corner of Bryant Building.
Well Location E/W: ~ 57 feet West of northwest corner of Bryant Building.
Reviewed by: RKB
Date Completed: 02/08/13

Site Address: 1101-1137 Northeast Boat Street
Seattle, Washington

Water Depth At Time of Drilling: 9.5 feet bgs
Water Depth After Completion: 10.9 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								~~2 inches asphalt surface.~~	
			80	0.0		SM		**Damp, dense, silty medium SAND with subrounded gravel, brown, no hydrocarbon odor. (20-65-15). Fill.**	
				0.0	P11-04			**Damp to moist, very dense, silty SAND with gravel, dark brown, no hydrocarbon odor. (35-45-10). Fill.**	
5			100	0.0	P11-08			**Moist, loose, silty fine SAND with some gravel, brown and gray, no hydrocarbon odor. (40-50-10). Fill.**	
			100	0.0					
10				0.0	P11-10	SM		**Wet, very dense, silty fine SAND with some gravel, gray, no hydrocarbon odor. (20-70-10). Fill.**	
				0.0		SW		**Moist to wet, very dense, fine to medium SAND with subrounded gravel, gray, no hydrocarbon odor. (5-80-15).**	
			100	0.0	P11-15	SM		**Moist to wet, very dense, silty fine SAND with subrounded gravel, gray, no hydrocarbon odor. (30-50-20).**	
15								**Drilling refusal and boring terminated at 15 feet bgs, abandoned with bentonite chips, and patched with asphalt.**	

Drilling Co./Driller:	Holocene/Matt		**Well/Auger Diameter:**	N/A	inches
Drilling Equipment:	Direct Push Probe		**Well Screened Interval:**	N/A	feet bgs
Sampler Type:	Plastic core tube		**Screen Slot Size:**	N/A	inches
Hammer Type/Weight:	N/A	lbs	**Filter Pack Used:**	N/A	
Total Boring Depth:	15	feet bgs	**Surface Seal:**	N/A	
Total Well Depth:	N/A	feet bgs	**Annular Seal:**	N/A	
State Well ID No.:	N/A		**Monument Type:**	N/A	

Notes/Comments:
Fill/native interface interpreted at ~9.5 feet bgs.

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

Analytical Resources, Inc. #WD12

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 8, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WD12

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted eight water samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC.

The NWTPH-Gx surrogate trifluorotoluene is out of control high in association with sample P06-20130207. The associated sample was non-detect and no further corrective action was taken.

The VOCs 2/8/13 CCAL is out of control high for all associated FORM III "Q" flagged analytes. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs 2/8/13 LCS and/or LCSD are out of control low for 2-Chloroethylvinylether and/or acrolein. All other spike recoveries are in control and no further corrective action was taken.

The cPAHs CCAL is out of control low for Benzo (a) anthracene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The PCP surrogate 2,4,6-Tribromophenol is out of control high in the LCS. The LCS spike recoveries are in control and no further corrective action was taken.

There were no further anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WD12

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WD12	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206 684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: CEC

Page: 1 of 1

Date: 2-7-2013 Ice Present? Y

No. of Coolers: 4 Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	Carcinogenic PAHs (8270)	Pentachlorophenol (8041)			Notes/Comments
P01-20130207	2-7-13	0855	water	10	X	X	X	X	X	X			
P02-20130207		0945		10	X	X	X	X	X	X			
P03-20130207		1120		10	X	X	X	X	X	X			
P04-20130207		1230		10	X	X	X	X	X	X			
P06-20130207		1245		10	X	X	X	X	X	X			
P07-20130207		1400		10	X	X	X	X	X	X			
P08-20130207		1500		10	X	X	X	X	X	X			
P09-20130207		1540		10	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by: (Signature)	Received by: (Signature)	Relinquished by (Signature)	Received by: (Signature)
Send copy of report to: Chris Cass of Sound Earth Strategies ccass@soundearthinc.com	Printed Name: Warren Rajkovich	Printed Name: Taylor Streater	Printed Name:	Printed Name:
	Company: Sound Earth Strategies	Company: ARI	Company:	Company:
	Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WD12
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P01-20130207	WD12A	13-2809	Water	02/07/13 08:55	02/08/13 10:25
2.	P02-20130207	WD12B	13-2810	Water	02/07/13 09:45	02/08/13 10:25
3.	P03-20130207	WD12C	13-2811	Water	02/07/13 11:20	02/08/13 10:25
4.	P04-20130207	WD12D	13-2812	Water	02/07/13 12:30	02/08/13 10:25
5.	P06-20130207	WD12E	13-2813	Water	02/07/13 12:45	02/08/13 10:25
6.	P07-20130207	WD12F	13-2814	Water	02/07/13 14:00	02/08/13 10:25
7.	P08-20130207	WD12G	13-2815	Water	02/07/13 15:00	02/08/13 10:25
8.	P09-20130207	WD12H	13-2816	Water	02/07/13 15:40	02/08/13 10:25

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Seattle Parks
Project Name: Bryant Building
COC No(s): _____ NA
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No.: W172
Tracking No.: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	4.8 3.2 5.2 4.1	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID# 90377952

Cooler Accepted by: TS Date: 2-8-13 Time: 1025

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____		
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI...	NA	_____	

Was Sample Split by ARI: NA YES Date/Time _____ Equipment _____ Split by: _____

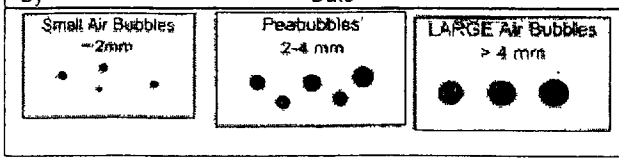
Samples Logged by: TS Date: 2-8-13 Time: ~~1025~~ 1147

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date _____



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P01-20130207**
 SAMPLE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 17:03

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
* 108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

*

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P01-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Date Analyzed: 02/08/13 17:03

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.7%
d8-Toluene	95.5%
Bromofluorobenzene	96.7%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P02-20130207**
 SAMPLE

Lab Sample ID: WD12B
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 17:29

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.20**	**1.5**	
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**0.27**	
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P02-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12B
LIMS ID: 13-2810
Matrix: Water
Date Analyzed: 02/08/13 17:29

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	95.9%
d8-Toluene	94.7%
Bromofluorobenzene	94.8%
d4-1,2-Dichlorobenzene	97.7%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P03-20130207**
 SAMPLE

Lab Sample ID: WD12C
LIMS ID: 13-2811
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 17:56

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.20**	**0.55**	
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**17**	
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	**Trichloroethene**	**0.20**	**13**	
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P03-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12C
LIMS ID: 13-2811
Matrix: Water
Date Analyzed: 02/08/13 17:56

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	103%
d8-Toluene	94.4%
Bromofluorobenzene	91.8%
d4-1,2-Dichlorobenzene	95.9%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P04-20130207**
 SAMPLE

Lab Sample ID: WD12D
LIMS ID: 13-2812
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 18:23

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	**Acetone**	**5.0**	**8.8**	
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**4.2**	
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	**Trichloroethene**	**0.20**	**5.6**	
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	**Toluene**	**0.20**	**0.48**	
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	**Ethylbenzene**	**0.20**	**0.45**	
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	**m,p-Xylene**	**0.40**	**2.0**	
95-47-6	**o-Xylene**	**0.20**	**1.1**	
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P04-20130207**
 SAMPLE

Lab Sample ID: WD12D
LIMS ID: 13-2812
Matrix: Water
Date Analyzed: 02/08/13 18:23

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	101%
d8-Toluene	94.8%
Bromofluorobenzene	96.7%
d4-1,2-Dichlorobenzene	100%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-20130207**
 SAMPLE

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 18:50

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.20**	**0.49**	
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	**1,1-Dichloroethene**	**0.20**	**0.62**	
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	**trans-1,2-Dichloroethene**	**0.20**	**0.55**	**Q**
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**41**	
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	**Trichloroethene**	**0.20**	**170**	**E**
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	**Benzene**	**0.20**	**0.72**	
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Date Analyzed: 02/08/13 18:50

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.2%
d8-Toluene	90.6%
Bromofluorobenzene	100%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-20130207**
 DILUTION

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/11/13 16:39

Sample Amount: 2.00 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	2.5	< 2.5	U
74-83-9	Bromomethane	5.0	< 5.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	5.0	< 5.0	U
67-64-1	Acetone	25	< 25	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**49**	
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	25	< 25	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	1.0	< 1.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	**Trichloroethene**	**1.0**	**180**	
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	25	< 25	U
591-78-6	2-Hexanone	25	< 25	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	< 1.0	U
179601-23-1	m,p-Xylene	2.0	< 2.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-20130207**
 DILUTION

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Date Analyzed: 02/11/13 16:39

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	25	< 25	U
74-88-4	Iodomethane	5.0	< 5.0	U
74-96-4	Bromoethane	1.0	< 1.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2.5	< 2.5	U
96-18-4	1,2,3-Trichloropropane	2.5	< 2.5	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	2.5	< 2.5	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	2.5	< 2.5	U
91-20-3	Naphthalene	2.5	< 2.5	U
87-61-6	1,2,3-Trichlorobenzene	2.5	< 2.5	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.9%
d8-Toluene	96.8%
Bromofluorobenzene	92.4%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-20130207**
 SAMPLE

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 19:16

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.20**	**7.1**	
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	**trans-1,2-Dichloroethene**	**0.20**	**1.1**	**Q**
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**67**	**E**
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	**Trichloroethene**	**0.20**	**3.0**	
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Date Analyzed: 02/08/13 19:16

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	93.7%
d8-Toluene	94.6%
Bromofluorobenzene	93.1%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-20130207**
 DILUTION

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/11/13 17:08

Sample Amount: 5.00 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	2.0	< 2.0	U
75-01-4	**Vinyl Chloride**	**0.40**	**7.1**	
75-00-3	Chloroethane	0.40	< 0.40	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	10	< 10	U
75-15-0	Carbon Disulfide	0.40	< 0.40	U
75-35-4	1,1-Dichloroethene	0.40	< 0.40	U
75-34-3	1,1-Dichloroethane	0.40	< 0.40	U
156-60-5	**trans-1,2-Dichloroethene**	**0.40**	**1.2**	
156-59-2	**cis-1,2-Dichloroethene**	**0.40**	**70**	
67-66-3	Chloroform	0.40	< 0.40	U
107-06-2	1,2-Dichloroethane	0.40	< 0.40	U
78-93-3	2-Butanone	10	< 10	U
71-55-6	1,1,1-Trichloroethane	0.40	< 0.40	U
56-23-5	Carbon Tetrachloride	0.40	< 0.40	U
108-05-4	Vinyl Acetate	0.40	< 0.40	U
75-27-4	Bromodichloromethane	0.40	< 0.40	U
78-87-5	1,2-Dichloropropane	0.40	< 0.40	U
10061-01-5	cis-1,3-Dichloropropene	0.40	< 0.40	U
79-01-6	**Trichloroethene**	**0.40**	**3.4**	
124-48-1	Dibromochloromethane	0.40	< 0.40	U
79-00-5	1,1,2-Trichloroethane	0.40	< 0.40	U
71-43-2	Benzene	0.40	< 0.40	U
10061-02-6	trans-1,3-Dichloropropene	0.40	< 0.40	U
110-75-8	2-Chloroethylvinylether	2.0	< 2.0	U
75-25-2	Bromoform	0.40	< 0.40	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	10	< 10	U
591-78-6	2-Hexanone	10	< 10	U
127-18-4	Tetrachloroethene	0.40	< 0.40	U
79-34-5	1,1,2,2-Tetrachloroethane	0.40	< 0.40	U
108-88-3	Toluene	0.40	< 0.40	U
108-90-7	Chlorobenzene	0.40	< 0.40	U
100-41-4	Ethylbenzene	0.40	< 0.40	U
100-42-5	Styrene	0.40	< 0.40	U
75-69-4	Trichlorofluoromethane	0.40	< 0.40	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.40	< 0.40	U
179601-23-1	m,p-Xylene	0.80	< 0.80	U
95-47-6	o-Xylene	0.40	< 0.40	U
95-50-1	1,2-Dichlorobenzene	0.40	< 0.40	U
541-73-1	1,3-Dichlorobenzene	0.40	< 0.40	U
106-46-7	1,4-Dichlorobenzene	0.40	< 0.40	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-20130207**
 DILUTION

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Date Analyzed: 02/11/13 17:08

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	10	< 10	U
74-88-4	Iodomethane	2.0	< 2.0	U
74-96-4	Bromoethane	0.40	< 0.40	U
107-13-1	Acrylonitrile	2.0	< 2.0	U
563-58-6	1,1-Dichloropropene	0.40	< 0.40	U
74-95-3	Dibromomethane	0.40	< 0.40	U
630-20-6	1,1,1,2-Tetrachloroethane	0.40	< 0.40	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	< 1.0	U
96-18-4	1,2,3-Trichloropropane	1.0	< 1.0	U
110-57-6	trans-1,4-Dichloro-2-butene	2.0	< 2.0	U
108-67-8	1,3,5-Trimethylbenzene	0.40	< 0.40	U
95-63-6	1,2,4-Trimethylbenzene	0.40	< 0.40	U
87-68-3	Hexachlorobutadiene	1.0	< 1.0	U
106-93-4	1,2-Dibromoethane	0.40	< 0.40	U
74-97-5	Bromochloromethane	0.40	< 0.40	U
594-20-7	2,2-Dichloropropane	0.40	< 0.40	U
142-28-9	1,3-Dichloropropane	0.40	< 0.40	U
98-82-8	Isopropylbenzene	0.40	< 0.40	U
103-65-1	n-Propylbenzene	0.40	< 0.40	U
108-86-1	Bromobenzene	0.40	< 0.40	U
95-49-8	2-Chlorotoluene	0.40	< 0.40	U
106-43-4	4-Chlorotoluene	0.40	< 0.40	U
98-06-6	tert-Butylbenzene	0.40	< 0.40	U
135-98-8	sec-Butylbenzene	0.40	< 0.40	U
99-87-6	4-Isopropyltoluene	0.40	< 0.40	U
104-51-8	n-Butylbenzene	0.40	< 0.40	U
120-82-1	1,2,4-Trichlorobenzene	1.0	< 1.0	U
91-20-3	Naphthalene	1.0	< 1.0	U
87-61-6	1,2,3-Trichlorobenzene	1.0	< 1.0	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.8%
d8-Toluene	96.4%
Bromofluorobenzene	97.3%
d4-1,2-Dichlorobenzene	92.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P08-20130207**
 SAMPLE

Lab Sample ID: WD12G
LIMS ID: 13-2815
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 19:43

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	**Vinyl Chloride**	**0.20**	**0.26**	
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	**cis-1,2-Dichloroethene**	**0.20**	**1.8**	
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P08-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12G
LIMS ID: 13-2815
Matrix: Water
Date Analyzed: 02/08/13 19:43

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	99.7%
d8-Toluene	94.0%
Bromofluorobenzene	93.0%
d4-1,2-Dichlorobenzene	98.6%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P09-20130207**
 SAMPLE

Lab Sample ID: WD12H
LIMS ID: 13-2816
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 20:09

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P09-20130207**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD12H
LIMS ID: 13-2816
Matrix: Water
Date Analyzed: 02/08/13 20:09

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.5%
d8-Toluene	95.2%
Bromofluorobenzene	92.4%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-020813A**
 METHOD BLANK

Lab Sample ID: MB-020813A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 14:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-020813A**

METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-020813A
LIMS ID: 13-2809
Matrix: Water
Date Analyzed: 02/08/13 14:41

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.0%
d8-Toluene	95.6%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	99.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-021113A**
 METHOD BLANK

Lab Sample ID: MB-021113A
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/11/13 16:11

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-021113A
METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-021113A
LIMS ID: 13-2813
Matrix: Water
Date Analyzed: 02/11/13 16:11

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	94.0%
d8-Toluene	96.0%
Bromofluorobenzene	105%
d4-1,2-Dichlorobenzene	103%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020813A	Method Blank	10	98.0%	95.6%	97.0%	99.8%	0
LCS-020813A	Lab Control	10	101%	99.8%	103%	102%	0
LCSD-020813A	Lab Control Dup	10	98.1%	96.7%	100%	102%	0
WD12A	P01-20130207	10	93.7%	95.5%	96.7%	103%	0
WD12B	P02-20130207	10	95.9%	94.7%	94.8%	97.7%	0
WD12C	P03-20130207	10	103%	94.4%	91.8%	95.9%	0
WD12D	P04-20130207	10	101%	94.8%	96.7%	100%	0
MB-021113A	Method Blank	10	94.0%	96.0%	105%	103%	0
LCS-021113A	Lab Control	10	97.3%	99.8%	103%	103%	0
LCSD-021113A	Lab Control Dup	10	97.0%	100%	98.4%	103%	0
WD12E	P06-20130207	10	99.2%	90.6%	100%	101%	0
WD12EDL	P06-20130207	10	96.9%	96.8%	92.4%	102%	0
WD12F	P07-20130207	10	93.7%	94.6%	93.1%	101%	0
WD12FDL	P07-20130207	10	96.8%	96.4%	97.3%	92.9%	0
WD12G	P08-20130207	10	99.7%	94.0%	93.0%	98.6%	0
WD12H	P09-20130207	10	96.5%	95.2%	92.4%	101%	0

SW8260C	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-120)	(80-130)
(TOL) = d8-Toluene	(80-120)	(80-120)
(BFB) = Bromofluorobenzene	(80-120)	(80-120)
(DCB) = d4-1,2-Dichlorobenzene	(80-120)	(80-120)

Prep Method: SW5030B
Log Number Range: 13-2809 to 13-2816

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020813A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT2/PKC
LCSD: NT2/PKC
Date Analyzed LCS: 02/08/13 13:48
LCSD: 02/08/13 14:15

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	8.99	10.0	89.9%	8.39	10.0	83.9%	6.9%
Bromomethane	9.09	10.0	90.9%	9.41	10.0	94.1%	3.5%
Vinyl Chloride	8.81	10.0	88.1%	8.42	10.0	84.2%	4.5%
Chloroethane	7.80 Q	10.0	78.0%	8.02 Q	10.0	80.2%	2.8%
Methylene Chloride	8.54	10.0	85.4%	8.45	10.0	84.5%	1.1%
Acetone	44.4	50.0	88.8%	42.7	50.0	85.4%	3.9%
Carbon Disulfide	8.79	10.0	87.9%	8.74	10.0	87.4%	0.6%
1,1-Dichloroethene	9.49	10.0	94.9%	9.27	10.0	92.7%	2.3%
1,1-Dichloroethane	9.39	10.0	93.9%	9.19	10.0	91.9%	2.2%
trans-1,2-Dichloroethene	8.17 Q	10.0	81.7%	7.97 Q	10.0	79.7%	2.5%
cis-1,2-Dichloroethene	8.46	10.0	84.6%	8.29	10.0	82.9%	2.0%
Chloroform	9.47	10.0	94.7%	9.12	10.0	91.2%	3.8%
1,2-Dichloroethane	10.2	10.0	102%	9.44	10.0	94.4%	7.7%
2-Butanone	48.9	50.0	97.8%	47.1	50.0	94.2%	3.8%
1,1,1-Trichloroethane	9.12	10.0	91.2%	8.71	10.0	87.1%	4.6%
Carbon Tetrachloride	9.66	10.0	96.6%	9.05	10.0	90.5%	6.5%
Vinyl Acetate	8.30	10.0	83.0%	8.52	10.0	85.2%	2.6%
Bromodichloromethane	10.2	10.0	102%	9.29	10.0	92.9%	9.3%
1,2-Dichloropropane	9.86	10.0	98.6%	9.68	10.0	96.8%	1.8%
cis-1,3-Dichloropropene	9.86	10.0	98.6%	9.48	10.0	94.8%	3.9%
Trichloroethene	10.4	10.0	104%	10.1	10.0	101%	2.9%
Dibromochloromethane	9.94	10.0	99.4%	9.74	10.0	97.4%	2.0%
1,1,2-Trichloroethane	10.2	10.0	102%	9.49	10.0	94.9%	7.2%
Benzene	9.94	10.0	99.4%	9.80	10.0	98.0%	1.4%
trans-1,3-Dichloropropene	10.3	10.0	103%	9.76	10.0	97.6%	5.4%
2-Chloroethylvinylether	5.88 Q	10.0	58.8%	5.70 Q	10.0	57.0%	3.1%
Bromoform	9.50	10.0	95.0%	9.17	10.0	91.7%	3.5%
4-Methyl-2-Pentanone (MIBK)	50.3	50.0	101%	50.9	50.0	102%	1.2%
2-Hexanone	49.5	50.0	99.0%	49.1	50.0	98.2%	0.8%
Tetrachloroethene	9.69	10.0	96.9%	9.67	10.0	96.7%	0.2%
1,1,2,2-Tetrachloroethane	8.79	10.0	87.9%	8.90	10.0	89.0%	1.2%
Toluene	9.87	10.0	98.7%	9.57	10.0	95.7%	3.1%
Chlorobenzene	9.68	10.0	96.8%	10.0	10.0	100%	3.3%
Ethylbenzene	9.95	10.0	99.5%	9.96	10.0	99.6%	0.1%
Styrene	9.89	10.0	98.9%	9.96	10.0	99.6%	0.7%
Trichlorofluoromethane	9.15	10.0	91.5%	8.85	10.0	88.5%	3.3%
1,1,2-Trichloro-1,2,2-trifluoroetha	9.46	10.0	94.6%	8.98	10.0	89.8%	5.2%
m,p-Xylene	19.7	20.0	98.5%	19.7	20.0	98.5%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020813A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813A
LIMS ID: 13-2809
Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
o-Xylene	9.42	10.0	94.2%	9.60	10.0	96.0%	1.9%
1,2-Dichlorobenzene	9.85	10.0	98.5%	9.61	10.0	96.1%	2.5%
1,3-Dichlorobenzene	9.72	10.0	97.2%	9.45	10.0	94.5%	2.8%
1,4-Dichlorobenzene	9.47	10.0	94.7%	9.29	10.0	92.9%	1.9%
Acrolein	29.0 Q	50.0	58.0%	34.4 Q	50.0	68.8%	17.0%
Iodomethane	9.13	10.0	91.3%	9.06	10.0	90.6%	0.8%
Bromoethane	8.80	10.0	88.0%	8.81	10.0	88.1%	0.1%
Acrylonitrile	9.06	10.0	90.6%	8.29	10.0	82.9%	8.9%
1,1-Dichloropropene	9.87	10.0	98.7%	9.63	10.0	96.3%	2.5%
Dibromomethane	9.70	10.0	97.0%	9.43	10.0	94.3%	2.8%
1,1,1,2-Tetrachloroethane	9.95	10.0	99.5%	9.95	10.0	99.5%	0.0%
1,2-Dibromo-3-chloropropane	10.8	10.0	108%	10.4	10.0	104%	3.8%
1,2,3-Trichloropropane	9.22	10.0	92.2%	9.20	10.0	92.0%	0.2%
trans-1,4-Dichloro-2-butene	8.72	10.0	87.2%	8.32	10.0	83.2%	4.7%
1,3,5-Trimethylbenzene	9.58	10.0	95.8%	9.22	10.0	92.2%	3.8%
1,2,4-Trimethylbenzene	9.49	10.0	94.9%	9.32	10.0	93.2%	1.8%
Hexachlorobutadiene	9.07	10.0	90.7%	8.96	10.0	89.6%	1.2%
1,2-Dibromoethane	10.3	10.0	103%	9.81	10.0	98.1%	4.9%
Bromochloromethane	9.78	10.0	97.8%	9.34	10.0	93.4%	4.6%
2,2-Dichloropropane	8.58 Q	10.0	85.8%	8.06 Q	10.0	80.6%	6.2%
1,3-Dichloropropane	9.71	10.0	97.1%	9.83	10.0	98.3%	1.2%
Isopropylbenzene	9.33	10.0	93.3%	8.98	10.0	89.8%	3.8%
n-Propylbenzene	9.13	10.0	91.3%	8.77	10.0	87.7%	4.0%
Bromobenzene	9.20	10.0	92.0%	9.28	10.0	92.8%	0.9%
2-Chlorotoluene	9.16	10.0	91.6%	8.92	10.0	89.2%	2.7%
4-Chlorotoluene	9.29	10.0	92.9%	8.86	10.0	88.6%	4.7%
tert-Butylbenzene	9.77	10.0	97.7%	9.39	10.0	93.9%	4.0%
sec-Butylbenzene	9.38	10.0	93.8%	9.22	10.0	92.2%	1.7%
4-Isopropyltoluene	9.57	10.0	95.7%	9.23	10.0	92.3%	3.6%
n-Butylbenzene	9.50	10.0	95.0%	9.23	10.0	92.3%	2.9%
1,2,4-Trichlorobenzene	10.8	10.0	108%	10.7	10.0	107%	0.9%
Naphthalene	10.5	10.0	105%	10.5	10.0	105%	0.0%
1,2,3-Trichlorobenzene	10.6	10.0	106%	10.6	10.0	106%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	98.1%
d8-Toluene	99.8%	96.7%
Bromofluorobenzene	103%	100%
d4-1,2-Dichlorobenzene	102%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT2/PKC
LCSD: NT2/PKC
Date Analyzed LCS: 02/11/13 15:18
LCSD: 02/11/13 15:44

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	9.40	10.0	94.0%	8.68	10.0	86.8%	8.0%
Bromomethane	9.42	10.0	94.2%	8.32	10.0	83.2%	12.4%
Vinyl Chloride	9.46	10.0	94.6%	8.66	10.0	86.6%	8.8%
Chloroethane	9.42	10.0	94.2%	8.58	10.0	85.8%	9.3%
Methylene Chloride	9.67	10.0	96.7%	9.13	10.0	91.3%	5.7%
Acetone	60.1	50.0	120%	48.6	50.0	97.2%	21.2%
Carbon Disulfide	10.1	10.0	101%	9.33	10.0	93.3%	7.9%
1,1-Dichloroethene	9.67	10.0	96.7%	9.14	10.0	91.4%	5.6%
1,1-Dichloroethane	9.99	10.0	99.9%	9.66	10.0	96.6%	3.4%
trans-1,2-Dichloroethene	10.2	10.0	102%	9.88	10.0	98.8%	3.2%
cis-1,2-Dichloroethene	9.49	10.0	94.9%	9.30	10.0	93.0%	2.0%
Chloroform	10.0	10.0	100%	9.71	10.0	97.1%	2.9%
1,2-Dichloroethane	9.55	10.0	95.5%	9.46	10.0	94.6%	0.9%
2-Butanone	52.2	50.0	104%	50.7	50.0	101%	2.9%
1,1,1-Trichloroethane	9.60	10.0	96.0%	9.44	10.0	94.4%	1.7%
Carbon Tetrachloride	9.82	10.0	98.2%	9.36	10.0	93.6%	4.8%
Vinyl Acetate	9.45	10.0	94.5%	9.68	10.0	96.8%	2.4%
Bromodichloromethane	10.0	10.0	100%	9.90	10.0	99.0%	1.0%
1,2-Dichloropropane	9.89	10.0	98.9%	9.91	10.0	99.1%	0.2%
cis-1,3-Dichloropropene	9.68	10.0	96.8%	10.2	10.0	102%	5.2%
Trichloroethene	10.3	10.0	103%	10.1	10.0	101%	2.0%
Dibromochloromethane	9.90	10.0	99.0%	10.0	10.0	100%	1.0%
1,1,2-Trichloroethane	9.95	10.0	99.5%	10.1	10.0	101%	1.5%
Benzene	9.94	10.0	99.4%	9.88	10.0	98.8%	0.6%
trans-1,3-Dichloropropene	9.56	10.0	95.6%	10.2	10.0	102%	6.5%
2-Chloroethylvinylether	9.41	10.0	94.1%	10.5	10.0	105%	10.9%
Bromoform	10.1	10.0	101%	10.4	10.0	104%	2.9%
4-Methyl-2-Pentanone (MIBK)	51.9	50.0	104%	53.8	50.0	108%	3.6%
2-Hexanone	51.2	50.0	102%	53.5	50.0	107%	4.4%
Tetrachloroethene	9.87	10.0	98.7%	10.2	10.0	102%	3.3%
1,1,2,2-Tetrachloroethane	9.75	10.0	97.5%	9.97	10.0	99.7%	2.2%
Toluene	10.0	10.0	100%	9.83	10.0	98.3%	1.7%
Chlorobenzene	9.74	10.0	97.4%	9.83	10.0	98.3%	0.9%
Ethylbenzene	9.89	10.0	98.9%	10.1	10.0	101%	2.1%
Styrene	10.5	10.0	105%	10.5	10.0	105%	0.0%
Trichlorofluoromethane	9.65	10.0	96.5%	9.10	10.0	91.0%	5.9%
1,1,2-Trichloro-1,2,2-trifluoroetha	10.4	10.0	104%	9.60	10.0	96.0%	8.0%
m,p-Xylene	20.4	20.0	102%	20.4	20.0	102%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2813
Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
o-Xylene	10.2	10.0	102%	10.1	10.0	101%	1.0%
1,2-Dichlorobenzene	9.98	10.0	99.8%	9.89	10.0	98.9%	0.9%
1,3-Dichlorobenzene	9.76	10.0	97.6%	9.70	10.0	97.0%	0.6%
1,4-Dichlorobenzene	9.88	10.0	98.8%	9.70	10.0	97.0%	1.8%
Acrolein	42.9	50.0	85.8%	41.4	50.0	82.8%	3.6%
Iodomethane	9.94	10.0	99.4%	9.28	10.0	92.8%	6.9%
Bromoethane	9.94	10.0	99.4%	9.57	10.0	95.7%	3.8%
Acrylonitrile	10.5	10.0	105%	9.89	10.0	98.9%	6.0%
1,1-Dichloropropene	10.1	10.0	101%	9.81	10.0	98.1%	2.9%
Dibromomethane	10.0	10.0	100%	9.77	10.0	97.7%	2.3%
1,1,1,2-Tetrachloroethane	10.1	10.0	101%	9.74	10.0	97.4%	3.6%
1,2-Dibromo-3-chloropropane	9.44	10.0	94.4%	9.25	10.0	92.5%	2.0%
1,2,3-Trichloropropane	9.28	10.0	92.8%	9.89	10.0	98.9%	6.4%
trans-1,4-Dichloro-2-butene	9.99	10.0	99.9%	10.0	10.0	100%	0.1%
1,3,5-Trimethylbenzene	10.1	10.0	101%	10.4	10.0	104%	2.9%
1,2,4-Trimethylbenzene	10.4	10.0	104%	10.3	10.0	103%	1.0%
Hexachlorobutadiene	9.14	10.0	91.4%	9.25	10.0	92.5%	1.2%
1,2-Dibromoethane	9.89	10.0	98.9%	9.97	10.0	99.7%	0.8%
Bromochloromethane	9.83	10.0	98.3%	9.84	10.0	98.4%	0.1%
2,2-Dichloropropane	9.98	10.0	99.8%	9.60	10.0	96.0%	3.9%
1,3-Dichloropropane	9.75	10.0	97.5%	10.1	10.0	101%	3.5%
Isopropylbenzene	9.94	10.0	99.4%	10.5	10.0	105%	5.5%
n-Propylbenzene	10.0	10.0	100%	10.4	10.0	104%	3.9%
Bromobenzene	9.57	10.0	95.7%	10.2	10.0	102%	6.4%
2-Chlorotoluene	9.80	10.0	98.0%	10.1	10.0	101%	3.0%
4-Chlorotoluene	9.69	10.0	96.9%	10.1	10.0	101%	4.1%
tert-Butylbenzene	10.2	10.0	102%	10.7	10.0	107%	4.8%
sec-Butylbenzene	10.2	10.0	102%	10.2	10.0	102%	0.0%
4-Isopropyltoluene	10.2	10.0	102%	10.1	10.0	101%	1.0%
n-Butylbenzene	10.2	10.0	102%	9.94	10.0	99.4%	2.6%
1,2,4-Trichlorobenzene	9.75	10.0	97.5%	10.7	10.0	107%	9.3%
Naphthalene	10.0	10.0	100%	11.1	10.0	111%	10.4%
1,2,3-Trichlorobenzene	9.64	10.0	96.4%	11.4	10.0	114%	16.7%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	97.3%	97.0%
d8-Toluene	99.8%	100%
Bromofluorobenzene	103%	98.4%
d4-1,2-Dichlorobenzene	103%	103%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Water

Data Release Authorized:
Reported: 02/11/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

ARI ID	Client ID	Analysis Date	DL	Range	Result
MB-020813	Method Blank	02/08/13	1.0	Gasoline	< 0.25 U
13-2809		PID1		HC ID	---
				Trifluorotoluene	92.7%
				Bromobenzene	95.3%
WD12A	P01-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2809		PID1		HC ID	---
				Trifluorotoluene	91.0%
				Bromobenzene	91.4%
WD12B	P02-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2810		PID1		HC ID	---
				Trifluorotoluene	90.9%
				Bromobenzene	91.9%
WD12C	P03-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2811		PID1		HC ID	---
				Trifluorotoluene	99.1%
				Bromobenzene	91.1%
WD12D	P04-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2812		PID1		HC ID	---
				Trifluorotoluene	94.2%
				Bromobenzene	92.0%
WD12E	P06-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2813		PID1		HC ID	---
				Trifluorotoluene	214%
				Bromobenzene	91.1%
WD12F	P07-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2814		PID1		HC ID	---
				Trifluorotoluene	93.2%
				Bromobenzene	93.5%
WD12G	P08-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2815		PID1		HC ID	---
				Trifluorotoluene	90.1%
				Bromobenzene	92.7%
WD12H	P09-20130207	02/08/13	1.0	Gasoline	< 0.25 U
13-2816		PID1		HC ID	---
				Trifluorotoluene	87.2%
				Bromobenzene	89.9%

Gasoline values reported in mg/L (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: WD12
Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108

Client ID	TFT	BBZ	TOT OUT
MB-020813	92.7%	95.3%	0
LCS-020813	95.7%	94.8%	0
LCSD-020813	96.9%	95.0%	0
P01-20130207	91.0%	91.4%	0
P02-20130207	90.9%	91.9%	0
P03-20130207	99.1%	91.1%	0
P04-20130207	94.2%	92.0%	0
P06-20130207	214%*	91.1%	1
P07-20130207	93.2%	93.5%	0
P08-20130207	90.1%	92.7%	0
P09-20130207	87.2%	89.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 13-2809 to 13-2816

FORM II TPHG

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-020813
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/11/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/08/13 12:20
LCSD: 02/08/13 12:49
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.03	1.00	103%	1.01	1.00	101%	2.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.7%	96.9%
Bromobenzene	94.8%	95.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P01-20130207
SAMPLE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 16:37
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.0%
d14-Dibenzo(a,h)anthracene	52.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

ANALYTICAL RESOURCES INCORPORATED

Sample ID: P02-20130207
SAMPLE

Lab Sample ID: WD12B
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 17:05
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	**0.10**	**0.21 Q**
218-01-9	**Chrysene**	**0.10**	**0.34**
50-32-8	**Benzo(a)pyrene**	**0.10**	**0.19**
193-39-5	**Indeno(1,2,3-cd)pyrene**	**0.10**	**0.10 J**
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	**Total Benzofluoranthenes**	**0.20**	**0.40**

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.0%
d14-Dibenzo(a,h)anthracene	55.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P03-20130207
SAMPLE

Lab Sample ID: WD12C
LIMS ID: 13-2811
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 17:32
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracene	47.0%

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

ANALYTICAL RESOURCES INCORPORATED

Sample ID: P04-20130207
SAMPLE

Lab Sample ID: WD12D
LIMS ID: 13-2812
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 18:00
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracene	23.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P06-20130207
SAMPLE

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 18:28
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.7%
d14-Dibenzo(a,h)anthracene	74.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P07-20130207
SAMPLE

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 18:55
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	62.3%
d14-Dibenzo(a,h)anthracene	59.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P08-20130207
SAMPLE

Lab Sample ID: WD12G
LIMS ID: 13-2815
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 19:23
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	64.7%
d14-Dibenzo(a,h)anthracene	44.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P09-20130207
SAMPLE

Lab Sample ID: WD12H
LIMS ID: 13-2816
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 19:50
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracene	70.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MB-020813
METHOD BLANK

Lab Sample ID: MB-020813
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 15:14
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	78.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	MNP	DBA	TOT OUT
MB-020813	68.7%	78.0%	0
LCS-020813	67.0%	84.3%	0
LCSD-020813	69.3%	88.0%	0
P01-20130207	64.0%	52.0%	0
P02-20130207	62.0%	55.0%	0
P03-20130207	70.7%	47.0%	0
P04-20130207	63.0%	23.3%	0
P06-20130207	66.7%	74.3%	0
P07-20130207	62.3%	59.3%	0
P08-20130207	64.7%	44.0%	0
P09-20130207	70.0%	70.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(40-110)	(33-107)
(DBA) = d14-Dibenzo(a,h)anthracene	(33-140)	(10-142)

Prep Method: SW3520C
Log Number Range: 13-2809 to 13-2816

FORM-II SIM SW8270

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample ID: LCS-020813
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 02/08/13

Date Analyzed LCS: 02/11/13 15:42
LCSD: 02/11/13 16:10
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzo(a)anthracene	2.18 Q	3.00	72.7%	2.33 Q	3.00	77.7%	6.7%
Chrysene	2.08	3.00	69.3%	2.26	3.00	75.3%	8.3%
Benzo(a)pyrene	1.79	3.00	59.7%	1.84	3.00	61.3%	2.8%
Indeno(1,2,3-cd)pyrene	1.98	3.00	66.0%	2.17	3.00	72.3%	9.2%
Dibenz(a,h)anthracene	1.93	3.00	64.3%	2.10	3.00	70.0%	8.4%
Total Benzofluoranthenes	6.48	9.00	72.0%	6.90	9.00	76.7%	6.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	67.0%	69.3%
d14-Dibenzo(a,h)anthracene	84.3%	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P01-20130207
SAMPLE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 23:04
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	81.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P02-20130207
SAMPLE

Lab Sample ID: WD12B
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 23:40
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	62.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P03-20130207
SAMPLE

Lab Sample ID: WD12C
LIMS ID: 13-2811
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 00:16
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	31.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P04-20130207
SAMPLE

Lab Sample ID: WD12D
LIMS ID: 13-2812
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 00:52
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	60.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P06-20130207
SAMPLE

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 01:28
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	87.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P07-20130207
SAMPLE

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 02:04
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	93.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P08-20130207
SAMPLE

Lab Sample ID: WD12G
LIMS ID: 13-2815
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 02:41
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	85.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P09-20130207
SAMPLE

Lab Sample ID: WD12H
LIMS ID: 13-2816
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 03:17
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	79.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 21:15
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	88.8%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	TBP	TOT OUT
MB-020913	88.8%	0
LCS-020913	98.6%*	1
LCSD-020913	95.6%	0
P01-20130207	81.6%	0
P02-20130207	62.0%	0
P03-20130207	31.2%	0
P04-20130207	60.0%	0
P06-20130207	87.6%	0
P07-20130207	93.6%	0
P08-20130207	85.2%	0
P09-20130207	79.6%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(41-98)	(26-113)

Prep Method: SW3510C
Log Number Range: 13-2809 to 13-2816

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/12/13 21:52
LCSD: 02/12/13 22:28
Instrument/Analyst LCS: ECD1/YZ
LCSD: ECD1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 50 mL
LCSD: 50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	2.04	2.50	81.6%	2.28	2.50	91.2%	11.1%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	98.6%	95.6%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Extraction Method:

ANALYTICAL RESOURCES INCORPORATED

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Matrix: Water
Data Release Authorized:
Reported: 02/13/13

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DF	Range/Surrogate	RL	Result
MB-020913	Method Blank	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2809	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		88.1%
WD12A	P01-20130207	02/09/13	02/11/13	1.00	**Diesel Range**	**0.10**	**0.50**
13-2809	HC ID: **DRO/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**0.20**	**0.92**
					o-Terphenyl		71.9%
WD12B	P02-20130207	02/09/13	02/11/13	1.00	**Diesel Range**	**0.10**	**0.19**
13-2810	HC ID: **DRO/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**0.20**	**0.66**
					o-Terphenyl		77.9%
MB-021213	Method Blank	02/12/13	02/12/13	1.00	Diesel Range	0.10	< 0.10 U
13-2811	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		92.4%
WD12C	P03-20130207	02/12/13	02/12/13	1.00	Diesel Range	0.10	< 0.10 U
13-2811	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		56.6%
WD12D	P04-20130207	02/09/13	02/11/13	1.00	**Diesel Range**	**0.10**	**0.19**
13-2812	HC ID: **DRO**		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		72.2%
WD12E	P06-20130207	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2813	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		86.8%
WD12F	P07-20130207	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2814	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		67.9%
WD12G	P08-20130207	02/12/13	02/12/13	1.00	Diesel Range	0.10	< 0.10 U
13-2815	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		85.6%
WD12H	P09-20130207	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2816	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		88.5%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	OTER	TOT OUT
MB-020913	88.1%	0
LCS-020913	78.2%	0
LCSD-020913	85.5%	0
P01-20130207	71.9%	0
P02-20130207	77.9%	0
MB-021213	92.4%	0
LCS-021213	86.0%	0
LCSD-021213	83.7%	0
P03-20130207	56.6%	0
P04-20130207	72.2%	0
P06-20130207	86.8%	0
P07-20130207	67.9%	0
P08-20130207	85.6%	0
P09-20130207	88.5%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3510C
Log Number Range: 13-2809 to 13-2816

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/11/13 17:46
LCSD: 02/11/13 18:06
Instrument/Analyst LCS: FID/JLW
LCSD: FID/JLW

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	1.92	3.00	64.0%	2.15	3.00	71.7%	11.3%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	78.2%	85.5%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-021213
LCS/LCSD

Lab Sample ID: LCS-021213
LIMS ID: 13-2811
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/12/13

Date Analyzed LCS: 02/12/13 13:36
LCSD: 02/12/13 13:57
Instrument/Analyst LCS: FID/JLW
LCSD: FID/JLW

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.30	3.00	76.7%	2.21	3.00	73.7%	4.0%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	86.0%	83.7%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: WD12
Project: Bryant Building
WP201108

Matrix: Water
Date Received: 02/08/13

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
13-2809-020913MB1	Method Blank	500 mL	1.00 mL	02/09/13
13-2809-020913LCS1	Lab Control	500 mL	1.00 mL	02/09/13
13-2809-020913LCSD1	Lab Control Dup	500 mL	1.00 mL	02/09/13
13-2809-WD12A	P01-20130207	500 mL	1.00 mL	02/09/13
13-2810-WD12B	P02-20130207	500 mL	1.00 mL	02/09/13
13-2811-021213MB1	Method Blank	500 mL	1.00 mL	02/12/13
13-2811-021213LCS1	Lab Control	500 mL	1.00 mL	02/12/13
13-2811-021213LCSD1	Lab Control Dup	500 mL	1.00 mL	02/12/13
13-2811-WD12C	P03-20130207	500 mL	1.00 mL	02/12/13
13-2812-WD12D	P04-20130207	500 mL	1.00 mL	02/09/13
13-2813-WD12E	P06-20130207	500 mL	1.00 mL	02/09/13
13-2814-WD12F	P07-20130207	500 mL	1.00 mL	02/09/13
13-2815-WD12G	P08-20130207	500 mL	1.00 mL	02/12/13
13-2816-WD12H	P09-20130207	500 mL	1.00 mL	02/09/13

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-20130207
SAMPLE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**2.3**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**37**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-20130207
DUPLICATE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	2.3	2.4	4.3%	+/- 20%	
Barium	6010C	37	40	7.8%	+/- 20%	
Cadmium	6010C	2 U	2 U	0.0%	+/- 2	L
Chromium	6010C	5 U	5 U	0.0%	+/- 5	L
Lead	200.8	0.1 U	0.1 U	0.0%	+/- 0.1	L
Mercury	7470A	0.1 U	0.1 U	0.0%	+/- 0.1	L
Selenium	6010C	50 U	50 U	0.0%	+/- 50	L
Silver	6010C	3 U	3 U	0.0%	+/- 3	L

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-20130207
MATRIX SPIKE

Lab Sample ID: WD12A
LIMS ID: 13-2809
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	2.3	31.1	25.0	115%	
Barium	6010C	37	2,150	2,000	106%	
Cadmium	6010C	2 U	531	500	106%	
Chromium	6010C	5 U	522	500	104%	
Lead	200.8	0.1 U	26.8	25.0	107%	
Mercury	7470A	0.1 U	1.0	1.0	100%	
Selenium	6010C	50 U	2,030	2,000	102%	
Silver	6010C	3 U	531	500	106%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked
NR-Not Recovered

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P02-20130207
SAMPLE

Lab Sample ID: WD12B
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.1**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**143**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**1.0**	
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P03-20130207
SAMPLE

Lab Sample ID: WD12C
LIMS ID: 13-2811
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.7**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**21**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P04-20130207
SAMPLE

Lab Sample ID: WD12D
LIMS ID: 13-2812
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.6**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**45**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P06-20130207
SAMPLE

Lab Sample ID: WD12E
LIMS ID: 13-2813
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.8**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**48**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P07-20130207
SAMPLE

Lab Sample ID: WD12F
LIMS ID: 13-2814
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.4**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**95**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**0.1**	
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P08-20130207
SAMPLE

Lab Sample ID: WD12G
LIMS ID: 13-2815
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**0.4**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**34**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P09-20130207
SAMPLE

Lab Sample ID: WD12H
LIMS ID: 13-2816
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**0.3**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**67**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD12MB
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	7440-38-2	Arsenic	0.2	0.2	U
3010A	02/08/13	6010C	02/11/13	7440-39-3	Barium	3	3	U
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD12LCS
LIMS ID: 13-2810
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD12-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	28.6	25.0	114%	
Barium	6010C	2140	2000	107%	
Cadmium	6010C	519	500	104%	
Chromium	6010C	526	500	105%	
Lead	200.8	28.3	25.0	113%	
Mercury	7470A	1.9	2.0	95.0%	
Selenium	6010C	2010	2000	100%	
Silver	6010C	537	500	107%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Inc. #WD14

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 13, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WD14

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted twenty three soil samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Several samples have been placed on hold pending further instructions.

The samples were analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC.

The VOCs CCAL is out of control high for all associated FORM III "Q" flagged analytes. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs LCSD is out of control high for chloroethane. All other spike recoveries are in control and no further corrective action was taken.

The total metals sample duplicate RPD for lead in association with sample P01-04 is outside of the +/-20% control limits. All other QC is in control and no further corrective action was taken.

There were no other anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WD14

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WDI4	Turn-around Requested: 5-day	Page: 1 of 3	
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133	Date: 2-7-2013	Ice Present?
Client Contact: Marrell Livesay		No. of Coolers:	Cooler Temps:
Client Project Name: Bryant Building			
Client Project #: WP20108	Samplers: CGC		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	Carcinogenic PAHs	Penta chloro-phenol (8041)			Notes/Comments
P01-04	2-7-13	0815	Soil	6	X	X	X	X	X	X			
P01-06		0820			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			Hold GC
P01-10		0825											
P02-03		0915			X	X	X	X	X	X			
P02-08		0920											
P02-12		0925											
P04-03		1030											
P04-06		1035			X	X	X	X	X	X			
P03-03		1050			X	X	X	X	X	X			
P03-08		1055											

Comments/Special Instructions	Relinquished by: (Signature)	Received by. (Signature)	Relinquished by (Signature)	Received by (Signature)
Send copy of report to: Chris Cass of SoundEarth Strategies, Inc. ccass@soundearthinc.com	Warren Rajkovich	Tony Streater		
	Printed Name: Warren Rajkovich	Printed Name: Tony Streater	Printed Name	Printed Name
	Company: SoundEarth Strategies	Company: ARI	Company	Company
	Date & Time: 2/8/13 1025	Date & Time 2-8-13 1025	Date & Time.	Date & Time.

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: CGC

Page: 2 of 3

Date: 2-7-2013 Ice Present?

No. of Coolers: Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	carcinogenic PAHs (8270C)	Pentachlorophenol (PCP) (8041)			Notes/Comments
P03-10	2-7-13	1100	Soil	6									
P05-03		1130		6									
P05-06		1135		6	X	X	X	X	X	X			
P06-03		1145		6	X	X	X	X	X	X			
P06-08		1150		6									
P07-03		1335		6	X	X	X	X	X	X			
P07-08		1340		6									
P07-12		1345		6									
P08-03		1430		6	X	X	X	X	X	X			
P08-06		1435		6									

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
See page 1	Warren Rajkovich	[illegible]		
	Printed Name: Warren Rajkovich	Printed Name: Jay Ivor Streeter	Printed Name	Printed Name
	Company: SES	Company: ARI	Company	Company
	Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP201108	Samplers: CGC

Page: 3 of 3

Date: 2-7-2013 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOC 8260C	Carcinogenic PAHs (8270)	Pentachlorophenol (PCP) (8041)			Notes/Comments
F09-04	2-7-13	1515	Soil	6	X	X	X	X	X	X			
F09-08	↓	1520	↓	6									
F09-10	↓	1525	↓	6									

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
See page 1				
	Printed Name: Warren Rajkovich	Printed Name: Taylor Streeter	Printed Name	Printed Name:
	Company: SES	Company: ARI	Company:	Company
	Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Sound Earth Strategies ~~Seattle Park~~

Project Name: Bryant Building

COC No(s): (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other

Assigned ARI Job No: WD14

Tracking No: (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	1.5 2.1 5.1 4.1	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: TS Date: 2-8-13 Time: 1025

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI...	NA		

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: AV Date: 2/8/13 Time: 1432

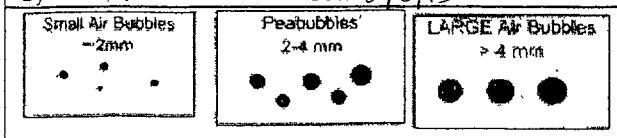
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
* P03-02	P02-03		

Additional Notes, Discrepancies, & Resolutions:

* only on 3 vials, vials have correct date and time

By: AV Date: 2/8/13



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WD14
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P01-04	WD14A	13-2848	Soil	02/07/13 08:15	02/08/13 10:25
2.	P02-03	WD14B	13-2849	Soil	02/07/13 09:15	02/08/13 10:25
3.	P04-06	WD14C	13-2850	Soil	02/07/13 10:35	02/08/13 10:25
4.	P03-03	WD14D	13-2851	Soil	02/07/13 10:50	02/08/13 10:25
5.	P05-06	WD14E	13-2852	Soil	02/07/13 11:35	02/08/13 10:25
6.	P06-03	WD14F	13-2853	Soil	02/07/13 11:45	02/08/13 10:25
7.	P07-03	WD14G	13-2854	Soil	02/07/13 13:35	02/08/13 10:25
8.	P08-02	WD14H	13-2855	Soil	02/07/13 14:30	02/08/13 10:25
9.	P09-04	WD14I	13-2856	Soil	02/07/13 15:15	02/08/13 10:25
10.	P01-06	WD14J	13-2857	Soil	02/07/13 08:20	02/08/13 10:25
11.	P01-10	WD14K	13-2858	Soil	02/07/13 08:25	02/08/13 10:25
12.	P02-08	WD14L	13-2859	Soil	02/07/13 09:20	02/08/13 10:25
13.	P02-12	WD14M	13-2860	Soil	02/07/13 09:25	02/08/13 10:25
14.	P04-03	WD14N	13-2861	Soil	02/07/13 10:30	02/08/13 10:25
15.	P03-08	WD14O	13-2862	Soil	02/07/13 10:55	02/08/13 10:25
16.	P03-10	WD14P	13-2863	Soil	02/07/13 11:00	02/08/13 10:25
17.	P05-03	WD14Q	13-2864	Soil	02/07/13 11:30	02/08/13 10:25
18.	P06-08	WD14R	13-2865	Soil	02/07/13 11:50	02/08/13 10:25
19.	P07-08	WD14S	13-2866	Soil	02/07/13 13:40	02/08/13 10:25
20.	P07-12	WD14T	13-2867	Soil	02/07/13 13:45	02/08/13 10:25
21.	P08-06	WD14U	13-2868	Soil	02/07/13 14:35	02/08/13 10:25
22.	P09-08	WD14V	13-2869	Soil	02/07/13 15:20	02/08/13 10:25
23.	P09-10	WD14W	13-2870	Soil	02/07/13 15:25	02/08/13 10:25

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P01-04**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 12:54

Sample Amount: 3.21 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 13.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.6	< 1.6	U
74-83-9	Bromomethane	1.6	< 1.6	U
75-01-4	Vinyl Chloride	1.6	< 1.6	U
75-00-3	Chloroethane	1.6	< 1.6	U
75-09-2	Methylene Chloride	3.1	< 3.1	U
67-64-1	**Acetone**	**7.8**	**67**	
75-15-0	**Carbon Disulfide**	**1.6**	**2.4**	
75-35-4	1,1-Dichloroethene	1.6	< 1.6	U
75-34-3	1,1-Dichloroethane	1.6	< 1.6	U
156-60-5	trans-1,2-Dichloroethene	1.6	< 1.6	U
156-59-2	cis-1,2-Dichloroethene	1.6	< 1.6	U
67-66-3	Chloroform	1.6	< 1.6	U
107-06-2	1,2-Dichloroethane	1.6	< 1.6	U
78-93-3	2-Butanone	7.8	< 7.8	U
71-55-6	1,1,1-Trichloroethane	1.6	< 1.6	U
56-23-5	Carbon Tetrachloride	1.6	< 1.6	U
108-05-4	Vinyl Acetate	7.8	< 7.8	U
75-27-4	Bromodichloromethane	1.6	< 1.6	U
78-87-5	1,2-Dichloropropane	1.6	< 1.6	U
10061-01-5	cis-1,3-Dichloropropene	1.6	< 1.6	U
79-01-6	Trichloroethene	1.6	< 1.6	U
124-48-1	Dibromochloromethane	1.6	< 1.6	U
79-00-5	1,1,2-Trichloroethane	1.6	< 1.6	U
71-43-2	**Benzene**	**1.6**	**15**	
10061-02-6	trans-1,3-Dichloropropene	1.6	< 1.6	U
110-75-8	2-Chloroethylvinylether	7.8	< 7.8	U
75-25-2	Bromoform	1.6	< 1.6	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.8	< 7.8	U
591-78-6	2-Hexanone	7.8	< 7.8	U
127-18-4	Tetrachloroethene	1.6	< 1.6	U
79-34-5	1,1,2,2-Tetrachloroethane	1.6	< 1.6	U
108-88-3	**Toluene**	**1.6**	**2.9**	
108-90-7	Chlorobenzene	1.6	< 1.6	U
100-41-4	Ethylbenzene	1.6	< 1.6	U
100-42-5	Styrene	1.6	< 1.6	U
75-69-4	Trichlorofluoromethane	1.6	< 1.6	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.1	< 3.1	U
179601-23-1	m,p-Xylene	1.6	< 1.6	U
95-47-6	o-Xylene	1.6	< 1.6	U
95-50-1	1,2-Dichlorobenzene	1.6	< 1.6	U
541-73-1	1,3-Dichlorobenzene	1.6	< 1.6	U
106-46-7	1,4-Dichlorobenzene	1.6	< 1.6	U
107-02-8	Acrolein	78	< 78	U
74-88-4	Iodomethane	1.6	< 1.6	U
74-96-4	Bromoethane	3.1	< 3.1	U
107-13-1	Acrylonitrile	7.8	< 7.8	U
563-58-6	1,1-Dichloropropene	1.6	< 1.6	U
74-95-3	Dibromomethane	1.6	< 1.6	U
630-20-6	1,1,1,2-Tetrachloroethane	1.6	< 1.6	U
96-12-8	1,2-Dibromo-3-chloropropane	7.8	< 7.8	U
96-18-4	1,2,3-Trichloropropane	3.1	< 3.1	U
110-57-6	trans-1,4-Dichloro-2-butene	7.8	< 7.8	U
108-67-8	1,3,5-Trimethylbenzene	1.6	< 1.6	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P01-04**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Date Analyzed: 02/11/13 12:54

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.6	< 1.6	U
87-68-3	Hexachlorobutadiene	7.8	< 7.8	U
106-93-4	1,2-Dibromoethane	1.6	< 1.6	U
74-97-5	Bromochloromethane	1.6	< 1.6	U
594-20-7	2,2-Dichloropropane	1.6	< 1.6	U
142-28-9	1,3-Dichloropropane	1.6	< 1.6	U
98-82-8	Isopropylbenzene	1.6	< 1.6	U
103-65-1	n-Propylbenzene	1.6	< 1.6	U
108-86-1	Bromobenzene	1.6	< 1.6	U
95-49-8	2-Chlorotoluene	1.6	< 1.6	U
106-43-4	4-Chlorotoluene	1.6	< 1.6	U
98-06-6	tert-Butylbenzene	1.6	< 1.6	U
135-98-8	sec-Butylbenzene	1.6	< 1.6	U
99-87-6	4-Isopropyltoluene	1.6	< 1.6	U
104-51-8	n-Butylbenzene	1.6	< 1.6	U
120-82-1	1,2,4-Trichlorobenzene	7.8	< 7.8	U
91-20-3	Naphthalene	7.8	< 7.8	U
87-61-6	1,2,3-Trichlorobenzene	7.8	< 7.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	96.2%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P02-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14B
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 13:17

Sample Amount: 4.41 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 15.4%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.3	< 2.3	U
67-64-1	**Acetone**	**5.7**	**41**	
75-15-0	Carbon Disulfide	1.1	< 1.1	U
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	**2-Butanone**	**5.7**	**7.5**	
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.7	< 5.7	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	**Benzene**	**1.1**	**3.8**	
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
110-75-8	2-Chloroethylvinylether	5.7	< 5.7	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.7	< 5.7	U
591-78-6	2-Hexanone	5.7	< 5.7	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	**Toluene**	**1.1**	**16**	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	**Ethylbenzene**	**1.1**	**4.7**	
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.3	< 2.3	U
179601-23-1	**m,p-Xylene**	**1.1**	**33**	
95-47-6	**o-Xylene**	**1.1**	**7.1**	
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	< 1.1	U
107-02-8	Acrolein	57	< 57	U
74-88-4	Iodomethane	1.1	< 1.1	U
74-96-4	Bromoethane	2.3	< 2.3	U
107-13-1	Acrylonitrile	5.7	< 5.7	U
563-58-6	1,1-Dichloropropene	1.1	< 1.1	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.7	< 5.7	U
96-18-4	1,2,3-Trichloropropane	2.3	< 2.3	U
110-57-6	trans-1,4-Dichloro-2-butene	5.7	< 5.7	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.1**	**8.4**	

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P02-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14B
LIMS ID: 13-2849
Matrix: Soil
Date Analyzed: 02/11/13 13:17

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	**39**	
87-68-3	Hexachlorobutadiene	5.7	< 5.7	U
106-93-4	1,2-Dibromoethane	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U
594-20-7	2,2-Dichloropropane	1.1	< 1.1	U
142-28-9	1,3-Dichloropropane	1.1	< 1.1	U
98-82-8	**Isopropylbenzene**	**1.1**	**6.6**	
103-65-1	**n-Propylbenzene**	**1.1**	**11**	
108-86-1	Bromobenzene	1.1	< 1.1	U
95-49-8	2-Chlorotoluene	1.1	< 1.1	U
106-43-4	4-Chlorotoluene	1.1	< 1.1	U
98-06-6	**tert-Butylbenzene**	**1.1**	**1.4**	
135-98-8	**sec-Butylbenzene**	**1.1**	**14**	
99-87-6	**4-Isopropyltoluene**	**1.1**	**4.7**	
104-51-8	**n-Butylbenzene**	**1.1**	**32**	
120-82-1	1,2,4-Trichlorobenzene	5.7	< 5.7	U
91-20-3	**Naphthalene**	**5.7**	**25**	
87-61-6	1,2,3-Trichlorobenzene	5.7	< 5.7	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	116%
d8-Toluene	103%
Bromofluorobenzene	110%
d4-1,2-Dichlorobenzene	100%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P04-06**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 13:41

Sample Amount: 5.23 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 9.0%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	1.9	< 1.9	U
67-64-1	**Acetone**	**4.8**	**10**	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	**cis-1,2-Dichloroethene**	**1.0**	**3.6**	
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	< 4.8	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	**Trichloroethene**	**1.0**	**45**	
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.8	< 4.8	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	48	< 48	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P04-06**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Date Analyzed: 02/11/13 13:41

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.8	< 4.8	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.8	< 4.8	U
91-20-3	Naphthalene	4.8	< 4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	< 4.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	117%
d8-Toluene	101%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	104%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P03-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14D
LIMS ID: 13-2851
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 14:05

Sample Amount: 4.82 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 16.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.1	< 2.1	U
67-64-1	**Acetone**	**5.2**	**43**	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.2	< 5.2	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.2	< 5.2	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	**Benzene**	**1.0**	**6.7**	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.2	< 5.2	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.2	< 5.2	U
591-78-6	2-Hexanone	5.2	< 5.2	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	**Toluene**	**1.0**	**2.7**	
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	**Ethylbenzene**	**1.0**	**4.7**	
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.1	< 2.1	U
179601-23-1	**m,p-Xylene**	**1.0**	**12**	
95-47-6	**o-Xylene**	**1.0**	**9.7**	
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	52	< 52	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.1	< 2.1	U
107-13-1	Acrylonitrile	5.2	< 5.2	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.2	< 5.2	U
96-18-4	1,2,3-Trichloropropane	2.1	< 2.1	U
110-57-6	trans-1,4-Dichloro-2-butene	5.2	< 5.2	U
108-67-8	**1,3,5-Trimethylbenzene**	**1.0**	**8.1**	

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P03-03**
 SAMPLE

Lab Sample ID: WD14D
LIMS ID: 13-2851
Matrix: Soil
Date Analyzed: 02/11/13 14:05

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	**1,2,4-Trimethylbenzene**	**1.0**	**13**	
87-68-3	Hexachlorobutadiene	5.2	< 5.2	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	**Isopropylbenzene**	**1.0**	**1.4**	
103-65-1	**n-Propylbenzene**	**1.0**	**1.8**	
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	**4-Isopropyltoluene**	**1.0**	**1.8**	
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.2	< 5.2	U
91-20-3	Naphthalene	5.2	< 5.2	U
87-61-6	1,2,3-Trichlorobenzene	5.2	< 5.2	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	103%
Bromofluorobenzene	98.1%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P05-06**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 14:29

Sample Amount: 4.56 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 6.3%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.2	< 2.2	U
67-64-1	**Acetone**	**5.5**	**6.9**	
75-15-0	Carbon Disulfide	1.1	< 1.1	U
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.5	< 5.5	U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.5	< 5.5	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	**Trichloroethene**	**1.1**	**16**	
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	Benzene	1.1	< 1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5	U
591-78-6	2-Hexanone	5.5	< 5.5	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	**Toluene**	**1.1**	**1.3**	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	< 1.1	U
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.2	< 2.2	U
179601-23-1	m,p-Xylene	1.1	< 1.1	U
95-47-6	o-Xylene	1.1	< 1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	< 1.1	U
107-02-8	Acrolein	55	< 55	U
74-88-4	Iodomethane	1.1	< 1.1	U
74-96-4	Bromoethane	2.2	< 2.2	U
107-13-1	Acrylonitrile	5.5	< 5.5	U
563-58-6	1,1-Dichloropropene	1.1	< 1.1	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	< 5.5	U
96-18-4	1,2,3-Trichloropropane	2.2	< 2.2	U
110-57-6	trans-1,4-Dichloro-2-butene	5.5	< 5.5	U
108-67-8	1,3,5-Trimethylbenzene	1.1	< 1.1	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P05-06**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Date Analyzed: 02/11/13 14:29

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.1	< 1.1	U
87-68-3	Hexachlorobutadiene	5.5	< 5.5	U
106-93-4	1,2-Dibromoethane	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U
594-20-7	2,2-Dichloropropane	1.1	< 1.1	U
142-28-9	1,3-Dichloropropane	1.1	< 1.1	U
98-82-8	Isopropylbenzene	1.1	< 1.1	U
103-65-1	n-Propylbenzene	1.1	< 1.1	U
108-86-1	Bromobenzene	1.1	< 1.1	U
95-49-8	2-Chlorotoluene	1.1	< 1.1	U
106-43-4	4-Chlorotoluene	1.1	< 1.1	U
98-06-6	tert-Butylbenzene	1.1	< 1.1	U
135-98-8	sec-Butylbenzene	1.1	< 1.1	U
99-87-6	4-Isopropyltoluene	1.1	< 1.1	U
104-51-8	n-Butylbenzene	1.1	< 1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.5	< 5.5	U
91-20-3	Naphthalene	5.5	< 5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	< 5.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	111%
d8-Toluene	103%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 14:53

Sample Amount: 4.53 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 13.1%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.2	< 2.2	U
67-64-1	**Acetone**	**5.5**	**11**	
75-15-0	Carbon Disulfide	1.1	< 1.1	U
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	**cis-1,2-Dichloroethene**	**1.1**	**6.9**	
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.5	< 5.5	U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.5	< 5.5	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	Benzene	1.1	< 1.1	U
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
110-75-8	2-Chloroethylvinylether	5.5	< 5.5	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.5	< 5.5	U
591-78-6	2-Hexanone	5.5	< 5.5	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	Toluene	1.1	< 1.1	U
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	< 1.1	U
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.2	< 2.2	U
179601-23-1	m,p-Xylene	1.1	< 1.1	U
95-47-6	o-Xylene	1.1	< 1.1	U
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	< 1.1	U
107-02-8	Acrolein	55	< 55	U
74-88-4	Iodomethane	1.1	< 1.1	U
74-96-4	Bromoethane	2.2	< 2.2	U
107-13-1	Acrylonitrile	5.5	< 5.5	U
563-58-6	1,1-Dichloropropene	1.1	< 1.1	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.5	< 5.5	U
96-18-4	1,2,3-Trichloropropane	2.2	< 2.2	U
110-57-6	trans-1,4-Dichloro-2-butene	5.5	< 5.5	U
108-67-8	1,3,5-Trimethylbenzene	1.1	< 1.1	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P06-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Date Analyzed: 02/11/13 14:53

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.1	< 1.1	U
87-68-3	Hexachlorobutadiene	5.5	< 5.5	U
106-93-4	1,2-Dibromoethane	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U
594-20-7	2,2-Dichloropropane	1.1	< 1.1	U
142-28-9	1,3-Dichloropropane	1.1	< 1.1	U
98-82-8	Isopropylbenzene	1.1	< 1.1	U
103-65-1	n-Propylbenzene	1.1	< 1.1	U
108-86-1	Bromobenzene	1.1	< 1.1	U
95-49-8	2-Chlorotoluene	1.1	< 1.1	U
106-43-4	4-Chlorotoluene	1.1	< 1.1	U
98-06-6	tert-Butylbenzene	1.1	< 1.1	U
135-98-8	sec-Butylbenzene	1.1	< 1.1	U
99-87-6	4-Isopropyltoluene	1.1	< 1.1	U
104-51-8	n-Butylbenzene	1.1	< 1.1	U
120-82-1	1,2,4-Trichlorobenzene	5.5	< 5.5	U
91-20-3	Naphthalene	5.5	< 5.5	U
87-61-6	1,2,3-Trichlorobenzene	5.5	< 5.5	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	103%
Bromofluorobenzene	103%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14G
LIMS ID: 13-2854
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 15:17

Sample Amount: 3.36 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 42.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.5	< 1.5	U
74-83-9	Bromomethane	1.5	< 1.5	U
75-01-4	Vinyl Chloride	1.5	< 1.5	U
75-00-3	Chloroethane	1.5	< 1.5	U
75-09-2	Methylene Chloride	3.0	< 3.0	U
67-64-1	**Acetone**	**7.4**	**21**	
75-15-0	Carbon Disulfide	1.5	< 1.5	U
75-35-4	1,1-Dichloroethene	1.5	< 1.5	U
75-34-3	1,1-Dichloroethane	1.5	< 1.5	U
156-60-5	trans-1,2-Dichloroethene	1.5	< 1.5	U
156-59-2	cis-1,2-Dichloroethene	1.5	< 1.5	U
67-66-3	Chloroform	1.5	< 1.5	U
107-06-2	1,2-Dichloroethane	1.5	< 1.5	U
78-93-3	2-Butanone	7.4	< 7.4	U
71-55-6	1,1,1-Trichloroethane	1.5	< 1.5	U
56-23-5	Carbon Tetrachloride	1.5	< 1.5	U
108-05-4	Vinyl Acetate	7.4	< 7.4	U
75-27-4	Bromodichloromethane	1.5	< 1.5	U
78-87-5	1,2-Dichloropropane	1.5	< 1.5	U
10061-01-5	cis-1,3-Dichloropropene	1.5	< 1.5	U
79-01-6	Trichloroethene	1.5	< 1.5	U
124-48-1	Dibromochloromethane	1.5	< 1.5	U
79-00-5	1,1,2-Trichloroethane	1.5	< 1.5	U
71-43-2	Benzene	1.5	< 1.5	U
10061-02-6	trans-1,3-Dichloropropene	1.5	< 1.5	U
110-75-8	2-Chloroethylvinylether	7.4	< 7.4	U
75-25-2	Bromoform	1.5	< 1.5	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	7.4	< 7.4	U
591-78-6	2-Hexanone	7.4	< 7.4	U
127-18-4	Tetrachloroethene	1.5	< 1.5	U
79-34-5	1,1,2,2-Tetrachloroethane	1.5	< 1.5	U
108-88-3	Toluene	1.5	< 1.5	U
108-90-7	Chlorobenzene	1.5	< 1.5	U
100-41-4	Ethylbenzene	1.5	< 1.5	U
100-42-5	Styrene	1.5	< 1.5	U
75-69-4	Trichlorofluoromethane	1.5	< 1.5	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3.0	< 3.0	U
179601-23-1	m,p-Xylene	1.5	< 1.5	U
95-47-6	o-Xylene	1.5	< 1.5	U
95-50-1	1,2-Dichlorobenzene	1.5	< 1.5	U
541-73-1	1,3-Dichlorobenzene	1.5	< 1.5	U
106-46-7	1,4-Dichlorobenzene	1.5	< 1.5	U
107-02-8	Acrolein	74	< 74	U
74-88-4	Iodomethane	1.5	< 1.5	U
74-96-4	Bromoethane	3.0	< 3.0	U
107-13-1	Acrylonitrile	7.4	< 7.4	U
563-58-6	1,1-Dichloropropene	1.5	< 1.5	U
74-95-3	Dibromomethane	1.5	< 1.5	U
630-20-6	1,1,1,2-Tetrachloroethane	1.5	< 1.5	U
96-12-8	1,2-Dibromo-3-chloropropane	7.4	< 7.4	U
96-18-4	1,2,3-Trichloropropane	3.0	< 3.0	U
110-57-6	trans-1,4-Dichloro-2-butene	7.4	< 7.4	U
108-67-8	1,3,5-Trimethylbenzene	1.5	< 1.5	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P07-03**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14G
LIMS ID: 13-2854
Matrix: Soil
Date Analyzed: 02/11/13 15:17

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.5	< 1.5	U
87-68-3	Hexachlorobutadiene	7.4	< 7.4	U
106-93-4	1,2-Dibromoethane	1.5	< 1.5	U
74-97-5	Bromochloromethane	1.5	< 1.5	U
594-20-7	2,2-Dichloropropane	1.5	< 1.5	U
142-28-9	1,3-Dichloropropane	1.5	< 1.5	U
98-82-8	Isopropylbenzene	1.5	< 1.5	U
103-65-1	n-Propylbenzene	1.5	< 1.5	U
108-86-1	Bromobenzene	1.5	< 1.5	U
95-49-8	2-Chlorotoluene	1.5	< 1.5	U
106-43-4	4-Chlorotoluene	1.5	< 1.5	U
98-06-6	tert-Butylbenzene	1.5	< 1.5	U
135-98-8	sec-Butylbenzene	1.5	< 1.5	U
99-87-6	4-Isopropyltoluene	1.5	< 1.5	U
104-51-8	n-Butylbenzene	1.5	< 1.5	U
120-82-1	1,2,4-Trichlorobenzene	7.4	< 7.4	U
91-20-3	Naphthalene	7.4	< 7.4	U
87-61-6	1,2,3-Trichlorobenzene	7.4	< 7.4	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	102%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P08-02**
 SAMPLE

Lab Sample ID: WD14H
LIMS ID: 13-2855
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 15:40

Sample Amount: 3.80 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 22.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.3	< 1.3	U
74-83-9	Bromomethane	1.3	< 1.3	U
75-01-4	Vinyl Chloride	1.3	< 1.3	U
75-00-3	Chloroethane	1.3	< 1.3	U
75-09-2	Methylene Chloride	2.6	< 2.6	U
67-64-1	**Acetone**	**6.6**	**30**	
75-15-0	Carbon Disulfide	1.3	< 1.3	U
75-35-4	1,1-Dichloroethene	1.3	< 1.3	U
75-34-3	1,1-Dichloroethane	1.3	< 1.3	U
156-60-5	trans-1,2-Dichloroethene	1.3	< 1.3	U
156-59-2	cis-1,2-Dichloroethene	1.3	< 1.3	U
67-66-3	Chloroform	1.3	< 1.3	U
107-06-2	1,2-Dichloroethane	1.3	< 1.3	U
78-93-3	2-Butanone	6.6	< 6.6	U
71-55-6	1,1,1-Trichloroethane	1.3	< 1.3	U
56-23-5	Carbon Tetrachloride	1.3	< 1.3	U
108-05-4	Vinyl Acetate	6.6	< 6.6	U
75-27-4	Bromodichloromethane	1.3	< 1.3	U
78-87-5	1,2-Dichloropropane	1.3	< 1.3	U
10061-01-5	cis-1,3-Dichloropropene	1.3	< 1.3	U
79-01-6	Trichloroethene	1.3	< 1.3	U
124-48-1	Dibromochloromethane	1.3	< 1.3	U
79-00-5	1,1,2-Trichloroethane	1.3	< 1.3	U
71-43-2	Benzene	1.3	< 1.3	U
10061-02-6	trans-1,3-Dichloropropene	1.3	< 1.3	U
110-75-8	2-Chloroethylvinylether	6.6	< 6.6	U
75-25-2	Bromoform	1.3	< 1.3	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	6.6	< 6.6	U
591-78-6	2-Hexanone	6.6	< 6.6	U
127-18-4	Tetrachloroethene	1.3	< 1.3	U
79-34-5	1,1,2,2-Tetrachloroethane	1.3	< 1.3	U
108-88-3	Toluene	1.3	< 1.3	U
108-90-7	Chlorobenzene	1.3	< 1.3	U
100-41-4	Ethylbenzene	1.3	< 1.3	U
100-42-5	Styrene	1.3	< 1.3	U
75-69-4	Trichlorofluoromethane	1.3	< 1.3	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.6	< 2.6	U
179601-23-1	m,p-Xylene	1.3	< 1.3	U
95-47-6	o-Xylene	1.3	< 1.3	U
95-50-1	1,2-Dichlorobenzene	1.3	< 1.3	U
541-73-1	1,3-Dichlorobenzene	1.3	< 1.3	U
106-46-7	1,4-Dichlorobenzene	1.3	< 1.3	U
107-02-8	Acrolein	66	< 66	U
74-88-4	Iodomethane	1.3	< 1.3	U
74-96-4	Bromoethane	2.6	< 2.6	U
107-13-1	Acrylonitrile	6.6	< 6.6	U
563-58-6	1,1-Dichloropropene	1.3	< 1.3	U
74-95-3	Dibromomethane	1.3	< 1.3	U
630-20-6	1,1,1,2-Tetrachloroethane	1.3	< 1.3	U
96-12-8	1,2-Dibromo-3-chloropropane	6.6	< 6.6	U
96-18-4	1,2,3-Trichloropropane	2.6	< 2.6	U
110-57-6	trans-1,4-Dichloro-2-butene	6.6	< 6.6	U
108-67-8	1,3,5-Trimethylbenzene	1.3	< 1.3	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P08-02**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14H
LIMS ID: 13-2855
Matrix: Soil
Date Analyzed: 02/11/13 15:40

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.3	< 1.3	U
87-68-3	Hexachlorobutadiene	6.6	< 6.6	U
106-93-4	1,2-Dibromoethane	1.3	< 1.3	U
74-97-5	Bromochloromethane	1.3	< 1.3	U
594-20-7	2,2-Dichloropropane	1.3	< 1.3	U
142-28-9	1,3-Dichloropropane	1.3	< 1.3	U
98-82-8	Isopropylbenzene	1.3	< 1.3	U
103-65-1	n-Propylbenzene	1.3	< 1.3	U
108-86-1	Bromobenzene	1.3	< 1.3	U
95-49-8	2-Chlorotoluene	1.3	< 1.3	U
106-43-4	4-Chlorotoluene	1.3	< 1.3	U
98-06-6	tert-Butylbenzene	1.3	< 1.3	U
135-98-8	sec-Butylbenzene	1.3	< 1.3	U
99-87-6	4-Isopropyltoluene	1.3	< 1.3	U
104-51-8	n-Butylbenzene	1.3	< 1.3	U
120-82-1	1,2,4-Trichlorobenzene	6.6	< 6.6	U
91-20-3	Naphthalene	6.6	< 6.6	U
87-61-6	1,2,3-Trichlorobenzene	6.6	< 6.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	102%
Bromofluorobenzene	99.1%
d4-1,2-Dichlorobenzene	102%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P09-04**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14I
LIMS ID: 13-2856
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 16:04

Sample Amount: 5.09 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 17.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	**Acetone**	**4.9**	**42**	
75-15-0	**Carbon Disulfide**	**1.0**	**15**	
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.9	< 4.9	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.9	< 4.9	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.9	< 4.9	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.9	< 4.9	U
591-78-6	2-Hexanone	4.9	< 4.9	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	49	< 49	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	4.9	< 4.9	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.9	< 4.9	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	4.9	< 4.9	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P09-04**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD14I
LIMS ID: 13-2856
Matrix: Soil
Date Analyzed: 02/11/13 16:04

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.9	< 4.9	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.9	< 4.9	U
91-20-3	Naphthalene	4.9	< 4.9	U
87-61-6	1,2,3-Trichlorobenzene	4.9	< 4.9	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	102%
Bromofluorobenzene	96.8%
d4-1,2-Dichlorobenzene	104%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-021113A
METHOD BLANK

Lab Sample ID: MB-021113A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 11:29

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-021113A
METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-021113A
LIMS ID: 13-2848
Matrix: Soil
Date Analyzed: 02/11/13 11:29

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	102%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-021113A	Method Blank	Low	106%	102%	98.4%	102%	0
LCS-021113A	Lab Control	Low	104%	101%	101%	99.1%	0
LCSD-021113A	Lab Control Dup	Low	105%	101%	102%	100%	0
WD14A	P01-04	Low	112%	102%	96.2%	104%	0
WD14B	P02-03	Low	116%	103%	110%	100%	0
WD14C	P04-06	Low	117%	101%	102%	104%	0
WD14D	P03-03	Low	112%	103%	98.1%	102%	0
WD14E	P05-06	Low	111%	103%	102%	102%	0
WD14F	P06-03	Low	114%	103%	103%	103%	0
WD14G	P07-03	Low	114%	102%	102%	104%	0
WD14H	P08-02	Low	114%	102%	99.1%	102%	0
WD14I	P09-04	Low	112%	102%	96.8%	104%	0

	LCS/MB LIMITS		QC LIMITS	
SW8260C	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	80-122	76-120	80-149	69-120
(TOL) = d8-Toluene	80-120	80-120	77-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	80-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 13-2848 to 13-2856

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 02/11/13 10:41
LCSD: 02/11/13 11:05

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	49.8	50.0	99.6%	50.8	50.0	102%	2.0%
Bromomethane	39.4	50.0	78.8%	42.7	50.0	85.4%	8.0%
Vinyl Chloride	52.5	50.0	105%	54.6	50.0	109%	3.9%
Chloroethane	62.1	50.0	124%	77.5	50.0	155%	22.1%
Methylene Chloride	48.7	50.0	97.4%	50.0	50.0	100%	2.6%
Acetone	257	250	103%	266	250	106%	3.4%
Carbon Disulfide	43.7	50.0	87.4%	47.0	50.0	94.0%	7.3%
1,1-Dichloroethene	42.4	50.0	84.8%	45.5	50.0	91.0%	7.1%
1,1-Dichloroethane	47.5	50.0	95.0%	50.5	50.0	101%	6.1%
trans-1,2-Dichloroethene	47.0	50.0	94.0%	49.5	50.0	99.0%	5.2%
cis-1,2-Dichloroethene	44.1	50.0	88.2%	49.4	50.0	98.8%	11.3%
Chloroform	48.0	50.0	96.0%	51.1	50.0	102%	6.3%
1,2-Dichloroethane	46.0	50.0	92.0%	48.6	50.0	97.2%	5.5%
2-Butanone	255	250	102%	268	250	107%	5.0%
1,1,1-Trichloroethane	48.3	50.0	96.6%	51.7	50.0	103%	6.8%
Carbon Tetrachloride	47.4	50.0	94.8%	51.2	50.0	102%	7.7%
Vinyl Acetate	48.3	50.0	96.6%	51.0	50.0	102%	5.4%
Bromodichloromethane	46.1	50.0	92.2%	48.8	50.0	97.6%	5.7%
1,2-Dichloropropane	45.7	50.0	91.4%	49.5	50.0	99.0%	8.0%
cis-1,3-Dichloropropene	47.2	50.0	94.4%	50.4	50.0	101%	6.6%
Trichloroethene	47.3	50.0	94.6%	50.7	50.0	101%	6.9%
Dibromochloromethane	46.7	50.0	93.4%	49.0	50.0	98.0%	4.8%
1,1,2-Trichloroethane	46.2	50.0	92.4%	48.8	50.0	97.6%	5.5%
Benzene	47.8	50.0	95.6%	50.9	50.0	102%	6.3%
trans-1,3-Dichloropropene	47.0	50.0	94.0%	50.4	50.0	101%	7.0%
2-Chloroethylvinylether	47.4	50.0	94.8%	50.7	50.0	101%	6.7%
Bromoform	45.0	50.0	90.0%	46.6	50.0	93.2%	3.5%
4-Methyl-2-Pentanone (MIBK)	240	250	96.0%	258	250	103%	7.2%
2-Hexanone	256	250	102%	268	250	107%	4.6%
Tetrachloroethene	47.9	50.0	95.8%	50.4	50.0	101%	5.1%
1,1,2,2-Tetrachloroethane	45.5	50.0	91.0%	47.7	50.0	95.4%	4.7%
Toluene	46.3	50.0	92.6%	49.7	50.0	99.4%	7.1%
Chlorobenzene	46.7	50.0	93.4%	49.5	50.0	99.0%	5.8%
Ethylbenzene	50.3	50.0	101%	53.1	50.0	106%	5.4%
Styrene	49.9	50.0	99.8%	52.1	50.0	104%	4.3%
Trichlorofluoromethane	62.1	50.0	124%	58.8	50.0	118%	5.5%
1,1,2-Trichloro-1,2,2-trifluoroetha	44.4	50.0	88.8%	48.0	50.0	96.0%	7.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2848
Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS		Spike Added-LCS	LCS Recovery	LCSD		Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	98.4		100	98.4%	105		100	105%	6.5%
o-Xylene	48.4		50.0	96.8%	51.1		50.0	102%	5.4%
1,2-Dichlorobenzene	46.4		50.0	92.8%	48.2		50.0	96.4%	3.8%
1,3-Dichlorobenzene	47.7		50.0	95.4%	49.3		50.0	98.6%	3.3%
1,4-Dichlorobenzene	47.2		50.0	94.4%	49.2		50.0	98.4%	4.1%
Acrolein	230		250	92.0%	239		250	95.6%	3.8%
Iodomethane	54.3	Q	50.0	109%	55.2	Q	50.0	110%	1.6%
Bromoethane	43.3		50.0	86.6%	46.7		50.0	93.4%	7.6%
Acrylonitrile	47.5		50.0	95.0%	48.8		50.0	97.6%	2.7%
1,1-Dichloropropene	47.9		50.0	95.8%	51.8		50.0	104%	7.8%
Dibromomethane	45.7		50.0	91.4%	48.5		50.0	97.0%	5.9%
1,1,1,2-Tetrachloroethane	46.2		50.0	92.4%	47.9		50.0	95.8%	3.6%
1,2-Dibromo-3-chloropropane	44.9		50.0	89.8%	46.5		50.0	93.0%	3.5%
1,2,3-Trichloropropane	45.3		50.0	90.6%	46.7		50.0	93.4%	3.0%
trans-1,4-Dichloro-2-butene	51.4		50.0	103%	52.1		50.0	104%	1.4%
1,3,5-Trimethylbenzene	49.9		50.0	99.8%	52.4		50.0	105%	4.9%
1,2,4-Trimethylbenzene	50.5		50.0	101%	52.4		50.0	105%	3.7%
Hexachlorobutadiene	48.0		50.0	96.0%	48.8		50.0	97.6%	1.7%
1,2-Dibromoethane	45.9		50.0	91.8%	48.5		50.0	97.0%	5.5%
Bromochloromethane	46.4		50.0	92.8%	48.2		50.0	96.4%	3.8%
2,2-Dichloropropane	41.5		50.0	83.0%	44.5		50.0	89.0%	7.0%
1,3-Dichloropropane	47.4		50.0	94.8%	49.2		50.0	98.4%	3.7%
Isopropylbenzene	50.2		50.0	100%	52.1		50.0	104%	3.7%
n-Propylbenzene	51.4		50.0	103%	53.5		50.0	107%	4.0%
Bromobenzene	44.9		50.0	89.8%	45.9		50.0	91.8%	2.2%
2-Chlorotoluene	48.3		50.0	96.6%	49.8		50.0	99.6%	3.1%
4-Chlorotoluene	49.4		50.0	98.8%	50.9		50.0	102%	3.0%
tert-Butylbenzene	48.9		50.0	97.8%	51.4		50.0	103%	5.0%
sec-Butylbenzene	51.6		50.0	103%	54.1		50.0	108%	4.7%
4-Isopropyltoluene	52.3		50.0	105%	54.2		50.0	108%	3.6%
n-Butylbenzene	53.5		50.0	107%	55.1		50.0	110%	2.9%
1,2,4-Trichlorobenzene	48.1		50.0	96.2%	49.2		50.0	98.4%	2.3%
Naphthalene	47.8		50.0	95.6%	48.5		50.0	97.0%	1.5%
1,2,3-Trichlorobenzene	45.8		50.0	91.6%	46.8		50.0	93.6%	2.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	104%	105%
d8-Toluene	101%	101%
Bromofluorobenzene	101%	102%
d4-1,2-Dichlorobenzene	99.1%	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P01-04
SAMPLE

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 08:42
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.23 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 13.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	< 6.8 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	46.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P02-03
SAMPLE

Lab Sample ID: WD14B
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 09:18
Instrument/Analyst: ECD1/YZ

Sample Amount: 8.59 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.3**	**6.2 J**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P04-06
SAMPLE

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 09:54
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.40 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.6	< 6.6 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	78.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P04-06
MATRIX SPIKE

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 10:31
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.54 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.6	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	87.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P04-06
MATRIX SPIKE DUP

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 11:07
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.56 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.5	---

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	85.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P03-03
SAMPLE

Lab Sample ID: WD14D
LIMS ID: 13-2851
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 12:19
Instrument/Analyst: ECD1/YZ

Sample Amount: 8.48 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**7.4**	**3.8 J**

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	71.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P05-06
SAMPLE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 12:55
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.59 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 6.3%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.5	< 6.5 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	72.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P06-03
SAMPLE

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 13:32
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.23 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 13.1%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.8	< 6.8 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	79.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P07-03
SAMPLE

Lab Sample ID: WD14G
LIMS ID: 13-2854
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 14:08
Instrument/Analyst: ECD1/YZ

Sample Amount: 5.79 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 42.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	11	< 11 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	31.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P08-02
SAMPLE

Lab Sample ID: WD14H
LIMS ID: 13-2855
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 14:44
Instrument/Analyst: ECD1/YZ

Sample Amount: 8.25 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 22.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.6	< 7.6 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	68.0%

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

ANALYTICAL RESOURCES INCORPORATED

Sample ID: P09-04
SAMPLE

Lab Sample ID: WD14I
LIMS ID: 13-2856
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 15:20
Instrument/Analyst: ECD1/YZ

Sample Amount: 8.76 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 17.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.1	< 7.1 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 06:53
Instrument/Analyst: ECD1/YZ

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	74.8%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	TBP	TOT OUT
P01-04	46.8%	0
P02-03	76.8%	0
MB-020913	74.8%	0
LCS-020913	89.4%	0
P04-06	78.0%	0
P04-06 MS	87.4%	0
P04-06 MSD	85.6%	0
P03-03	71.2%	0
P05-06	72.0%	0
P06-03	79.2%	0
P07-03	31.8%	0
P08-02	68.0%	0
P09-04	76.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(39-99)	(10-129)

Prep Method: SW3550B
Log Number Range: 13-2848 to 13-2856

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13
Date Analyzed LCS: 02/13/13 07:30
LCSD: 02/13/13 08:06
Instrument/Analyst LCS: ECD1/YZ
LCSD: ECD1/YZ

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 25 mL
LCSD: 25 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	55.1	62.5	88.2%	56.5	62.5	90.4%	2.5%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	89.4%	83.0%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: P04-06
MS/MSD

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted MS/MSD: 02/09/13

Date Analyzed MS: 02/13/13 10:31
MSD: 02/13/13 11:07
Instrument/Analyst MS: ECD1/YZ
MSD: ECD1/YZ
Percent Moisture: 9.0%

Sample Amount MS: 9.54 g-dry-wt
MSD: 9.56 g-dry-wt
Final Extract Volume MS: 25 mL
MSD: 25 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Pentachlorophenol	< 6.65	55.0	65.5	84.0%	54.8	65.4	83.8%	0.4%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P01-04
SAMPLE

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 13:23
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.49 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	58
218-01-9	Chrysene	4.8	73
50-32-8	Benzo(a)pyrene	4.8	64
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	44
53-70-3	Dibenz(a,h)anthracene	4.8	14
TOTBFA	Total Benzofluoranthenes	4.8	110

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	74.0%
d14-Dibenzo(a,h)anthracen	92.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P02-03
SAMPLE

Lab Sample ID: WD14B
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 13:51
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.20 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 15.4%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.9	150
218-01-9	Chrysene	4.9	240
50-32-8	Benzo(a)pyrene	4.9	160
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	100
53-70-3	Dibenz(a,h)anthracene	4.9	29
TOTBFA	Total Benzofluoranthenes	4.9	320

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	82.0%
d14-Dibenzo(a,h)anthracen	72.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P04-06
SAMPLE

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 14:19
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.09 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 9.0%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	66.3%
d14-Dibenzo(a,h)anthracen	87.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P03-03
SAMPLE

Lab Sample ID: WD14D
LIMS ID: 13-2851
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 14:46
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.23 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 16.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.9	160
218-01-9	Chrysene	4.9	190
50-32-8	Benzo(a)pyrene	4.9	160
193-39-5	Indeno(1,2,3-cd)pyrene	4.9	120
53-70-3	Dibenz(a,h)anthracene	4.9	41
TOTBFA	Total Benzofluoranthenes	4.9	330

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.7%
d14-Dibenzo(a,h)anthracen	74.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P05-06
SAMPLE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 15:14
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.49 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	< 4.8 U
218-01-9	Chrysene	4.8	< 4.8 U
50-32-8	Benzo(a)pyrene	4.8	< 4.8 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	< 4.8 U
53-70-3	Dibenz(a,h)anthracene	4.8	< 4.8 U
TOTBFA	Total Benzofluoranthenes	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	63.0%
d14-Dibenzo(a,h)anthracen	87.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P05-06
MATRIX SPIKE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 15:41
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.48 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	---
218-01-9	Chrysene	4.8	---
50-32-8	Benzo(a)pyrene	4.8	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	---
53-70-3	Dibenz(a,h)anthracene	4.8	---
TOTBFA	Total Benzofluoranthenes	4.8	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracen	91.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P05-06
MATRIX SPIKE DUPLICATE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 16:09
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.39 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 6.3%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	---
218-01-9	Chrysene	4.8	---
50-32-8	Benzo(a)pyrene	4.8	---
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	---
53-70-3	Dibenz(a,h)anthracene	4.8	---
TOTBFA	Total Benzofluoranthenes	4.8	---

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.0%
d14-Dibenzo(a,h)anthracen	91.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P06-03
SAMPLE

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 16:36
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.68 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 13.1%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.7	< 4.7 U
218-01-9	Chrysene	4.7	< 4.7 U
50-32-8	Benzo(a)pyrene	4.7	< 4.7 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.7	< 4.7 U
53-70-3	Dibenz(a,h)anthracene	4.7	< 4.7 U
TOTBFA	Total Benzofluoranthenes	4.7	< 4.7 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	71.3%
d14-Dibenzo(a,h)anthracen	86.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P07-03
SAMPLE

Lab Sample ID: WD14G
LIMS ID: 13-2854
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 17:04
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.38 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 42.7%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	20
218-01-9	Chrysene	4.8	49
50-32-8	Benzo(a)pyrene	4.8	13
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	5.7
53-70-3	Dibenz(a,h)anthracene	4.8	3.0 J
TOTBFA	Total Benzofluoranthenes	4.8	32

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	65.3%
d14-Dibenzo(a,h)anthracen	12.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P08-02
SAMPLE

Lab Sample ID: WD14H
LIMS ID: 13-2855
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 17:32
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.07 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 22.7%

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	5.0	**18**
218-01-9	**Chrysene**	5.0	**29**
50-32-8	**Benzo(a)pyrene**	5.0	**22**
193-39-5	**Indeno(1,2,3-cd)pyrene**	5.0	**18**
53-70-3	**Dibenz(a,h)anthracene**	5.0	**5.9**
TOTBFA	**Total Benzofluoranthenes**	5.0	**44**

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.7%
d14-Dibenzo(a,h)anthracen	84.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P09-04
SAMPLE

Lab Sample ID: WD14I
LIMS ID: 13-2856
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 17:59
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.90 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 17.7%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	20
218-01-9	Chrysene	4.6	38
50-32-8	Benzo(a)pyrene	4.6	25
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	18
53-70-3	Dibenz(a,h)anthracene	4.6	5.4
TOTBFA	Total Benzofluoranthenes	4.6	51

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracen	80.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 12:01
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracen	89.3%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	MNP	DBA	TOT OUT
P01-04	74.0%	92.3%	0
P02-03	82.0%	72.3%	0
P04-06	66.3%	87.7%	0
P03-03	77.7%	74.0%	0
MB-020913	77.0%	89.3%	0
LCS-020913	71.0%	96.7%	0
LCSD-020913	70.3%	93.0%	0
P05-06	63.0%	87.3%	0
P05-06 MS	68.7%	91.0%	0
P05-06 MSD	68.0%	91.3%	0
P06-03	71.3%	86.0%	0
P07-03	65.3%	12.7%	0
P08-02	69.7%	84.0%	0
P09-04	70.7%	80.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 13-2848 to 13-2856

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

Sample ID: LCS-020913
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020913
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13

Date Analyzed LCS: 02/12/13 12:28
LCSD: 02/12/13 12:56
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 10.00 g-dry-wt
LCSD: 10.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzo(a)anthracene	112	150	74.7%	115	150	76.7%	2.6%
Chrysene	110	150	73.3%	114	150	76.0%	3.6%
Benzo(a)pyrene	97.6	150	65.1%	97.2	150	64.8%	0.4%
Indeno(1,2,3-cd)pyrene	116	150	77.3%	116	150	77.3%	0.0%
Dibenz(a,h)anthracene	114	150	76.0%	115	150	76.7%	0.9%
Total Benzofluoranthenes	347	450	77.1%	349	450	77.6%	0.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	71.0%	70.3%
d14-Dibenzo(a,h)anthracen	96.7%	93.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

Sample ID: P05-06
MATRIX SPIKE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted MS/MSD: 02/09/13

Date Analyzed MS: 02/12/13 15:41
MSD: 02/12/13 16:09
Instrument/Analyst MS: NT4/JZ
MSD: NT4/JZ

Sample Amount MS: 10.48 g-dry-wt
MSD: 10.39 g-dry-wt
Final Extract Volume MS: 0.50 mL
MSD: 0.50 mL
Dilution Factor MS: 1.00
MSD: 1.00

Analyte	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Benzo(a)anthracene	< 4.8 U	110	143	76.9%	112	144	77.8%	1.8%
Chrysene	< 4.8 U	102	143	71.3%	105	144	72.9%	2.9%
Benzo(a)pyrene	< 4.8 U	92.0	143	64.3%	94.4	144	65.6%	2.6%
Indeno(1,2,3-cd)pyrene	< 4.8 U	100	143	69.9%	105	144	72.9%	4.9%
Dibenz(a,h)anthracene	< 4.8 U	100	143	69.9%	104	144	72.2%	3.9%
Total Benzofluoranthenes	< 4.8 U	299	429	69.7%	305	433	70.4%	2.0%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Soil

Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

ARI ID	Client ID	Analysis Date	Basis	Range	Result
WD14A	P01-04	02/11/13	Dry	**Gasoline**	**9.8**
13-2848		PID1		HC ID	GRO
				Trifluorotoluene	91.3%
				Bromobenzene	93.1%
MB-021113	Method Blank	02/11/13	Dry	Gasoline	< 5.0 U
13-2849		PID1		HC ID	---
				Trifluorotoluene	89.6%
				Bromobenzene	90.8%
WD14B	P02-03	02/11/13	Dry	**Gasoline**	**460**
13-2849		PID1		HC ID	GRO
				Trifluorotoluene	89.2%
				Bromobenzene	87.0%
MB-021213	Method Blank	02/12/13	Dry	Gasoline	< 5.0 U
13-2850		PID1		HC ID	---
				Trifluorotoluene	89.2%
				Bromobenzene	91.7%
WD14C	P04-06	02/12/13	Dry	Gasoline	< 5.8 U
13-2850		PID1		HC ID	---
				Trifluorotoluene	93.1%
				Bromobenzene	87.4%
WD14D	P03-03	02/11/13	Dry	**Gasoline**	**25**
13-2851		PID1		HC ID	GAS
				Trifluorotoluene	84.6%
				Bromobenzene	86.7%
WD14E	P05-06	02/11/13	Dry	Gasoline	< 5.9 U
13-2852		PID1		HC ID	---
				Trifluorotoluene	91.0%
				Bromobenzene	89.1%
WD14F	P06-03	02/11/13	Dry	Gasoline	< 5.5 U
13-2853		PID1		HC ID	---
				Trifluorotoluene	87.4%
				Bromobenzene	90.2%
WD14G	P07-03	02/11/13	Dry	Gasoline	< 12 U
13-2854		PID1		HC ID	---
				Trifluorotoluene	89.7%
				Bromobenzene	93.2%
WD14H	P08-02	02/11/13	Dry	Gasoline	< 8.5 U
13-2855		PID1		HC ID	---
				Trifluorotoluene	84.0%
				Bromobenzene	89.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Soil

Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

ARI ID	Client ID	Analysis Date	Basis	Range	Result
WD14I	P09-04	02/11/13	Dry	Gasoline	< 6.4 U
13-2856		PID1		HC ID	---
				Trifluorotoluene	85.5%
				Bromobenzene	88.9%

Gasoline values reported in mg/kg (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: WD14
Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108

Client ID	BFB	TFT	BBZ	TOT OUT
P01-04	NA	91.3%	93.1%	0
MB-021113	NA	89.6%	90.8%	0
LCS-021113	NA	93.8%	90.4%	0
LCSD-021113	NA	88.9%	85.9%	0
P02-03	NA	89.2%	87.0%	0
MB-021213	NA	89.2%	91.7%	0
LCS-021213	NA	90.8%	89.8%	0
LCSD-021213	NA	89.6%	89.1%	0
P04-06	NA	93.1%	87.4%	0
P03-03	NA	84.6%	86.7%	0
P05-06	NA	91.0%	89.1%	0
P06-03	NA	87.4%	90.2%	0
P07-03	NA	89.7%	93.2%	0
P08-02	NA	84.0%	89.2%	0
P09-04	NA	85.5%	88.9%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(65-128)
(BBZ) = Bromobenzene	(80-120)	(52-149)

Log Number Range: 13-2848 to 13-2856

FORM II TPHG

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-021113
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/11/13 10:31
LCSD: 02/11/13 11:01
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	49.0	50.0	98.0%	47.9	50.0	95.8%	2.3%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.8%	88.9%
Bromobenzene	90.4%	85.9%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-021213
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021213
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/12/13 10:52
LCSD: 02/12/13 11:21
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	48.6	50.0	97.2%	46.6	50.0	93.2%	4.2%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	90.8%	89.6%
Bromobenzene	89.8%	89.1%

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Extraction Method: SW3546

ANALYTICAL RESOURCES INCORPORATED

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DF	Range/Surrogate	RL	Result
WD14A	P01-04	02/09/13	02/11/13	1.00	**Diesel Range**	**5.7**	**7.9**
13-2848	HC ID: **DRO/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**11**	**48**
					o-Terphenyl		91.6%
WD14B	P02-03	02/09/13	02/11/13	1.00	**Diesel Range**	**5.8**	**160**
13-2849	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**12**	**450**
					o-Terphenyl		85.3%
WD14C	P04-06	02/09/13	02/11/13	1.00	Diesel Range	5.4	< 5.4 U
13-2850	HC ID: ---		FID4A	1.0	Motor Oil Range	11	< 11 U
					o-Terphenyl		97.8%
WD14D	P03-03	02/09/13	02/11/13	1.00	**Diesel Range**	**5.9**	**62**
13-2851	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**12**	**210**
					o-Terphenyl		86.1%
WD14E	P05-06	02/09/13	02/11/13	1.00	Diesel Range	5.3	< 5.3 U
13-2852	HC ID: ---		FID4A	1.0	Motor Oil Range	10	< 10 U
					o-Terphenyl		100%
MB-020913	Method Blank	02/09/13	02/11/13	1.00	Diesel Range	5.0	< 5.0 U
13-2853	HC ID: ---		FID4A	1.0	Motor Oil Range	10	< 10 U
					o-Terphenyl		103%
WD14F	P06-03	02/09/13	02/11/13	1.00	Diesel Range	5.7	< 5.7 U
13-2853	HC ID: ---		FID4A	1.0	Motor Oil Range	11	< 11 U
					o-Terphenyl		100%
WD14G	P07-03	02/09/13	02/11/13	1.00	**Diesel Range**	**8.5**	**230**
13-2854	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**17**	**330**
					o-Terphenyl		83.5%
WD14H	P08-02	02/09/13	02/11/13	1.00	Diesel Range	6.3	< 6.3 U
13-2855	HC ID: **MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**13**	**14**
					o-Terphenyl		97.1%
WD14I	P09-04	02/09/13	02/11/13	1.00	**Diesel Range**	**6.0**	**25**
13-2856	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**12**	**88**
					o-Terphenyl		90.0%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	OTER	TOT OUT
P01-04	91.6%	0
P02-03	85.3%	0
P04-06	97.8%	0
P03-03	86.1%	0
P05-06	100%	0
MB-020913	103%	0
LCS-020913	90.6%	0
LCSD-020913	91.9%	0
P06-03	100%	0
P06-03 MS	91.5%	0
P06-03 MSD	89.8%	0
P07-03	83.5%	0
P08-02	97.1%	0
P09-04	90.0%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3546
Log Number Range: 13-2848 to 13-2856

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned **Sample ID: P06-03**
 MS/MSD

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted MS/MSD: 02/09/13

Date Analyzed MS: 02/11/13 11:59
MSD: 02/11/13 13:00
Instrument/Analyst MS: FID/JLW
MSD: FID/JLW

Sample Amount MS: 8.85 g-dry-wt
MSD: 8.76 g-dry-wt
Final Extract Volume MS: 1.0 mL
MSD: 1.0 mL
Dilution Factor MS: 1.0
MSD: 1.0
Percent Moisture: 13.1%

Range	Sample	MS	Spike Added-MS	MS Recovery	MSD	Spike Added-MSD	MSD Recovery	RPD
Diesel	< 5.7	127	169	75.1%	126	171	73.7%	0.8%

TPHD Surrogate Recovery

	MS	MSD
o-Terphenyl	91.5%	89.8%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized: MW
Reported: 02/12/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/11/13 09:15
LCSD: 02/11/13 09:35
Instrument/Analyst LCS: FID/JLW
LCSD: FID/JLW

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	112	150	74.7%	111	150	74.0%	0.9%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	90.6%	91.9%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: WD14
Matrix: Soil
Project: Bryant Building
Date Received: 02/08/13
WP201108

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
13-2848-WD14A	P01-04	8.80 g	1.00 mL	D	02/09/13
13-2849-WD14B	P02-03	8.63 g	1.00 mL	D	02/09/13
13-2850-WD14C	P04-06	9.20 g	1.00 mL	D	02/09/13
13-2851-WD14D	P03-03	8.52 g	1.00 mL	D	02/09/13
13-2852-WD14E	P05-06	9.48 g	1.00 mL	D	02/09/13
13-2853-020913MB1	Method Blank	10.0 g	1.00 mL	-	02/09/13
13-2853-020913LCS1	Lab Control	10.0 g	1.00 mL	-	02/09/13
13-2853-020913LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	02/09/13
13-2853-WD14F	P06-03	8.75 g	1.00 mL	D	02/09/13
13-2853-WD14FMS	P06-03	8.85 g	1.00 mL	D	02/09/13
13-2853-WD14FMSD	P06-03	8.76 g	1.00 mL	D	02/09/13
13-2854-WD14G	P07-03	5.86 g	1.00 mL	D	02/09/13
13-2855-WD14H	P08-02	7.90 g	1.00 mL	D	02/09/13
13-2856-WD14I	P09-04	8.35 g	1.00 mL	D	02/09/13

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-04
SAMPLE

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 87.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**15.1**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.8	**177**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.5	**1.8**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	1	**31**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**132**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.03	**0.05**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	10	10	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.8	0.8	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-04
DUPLICATE

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	15.1	12.9	15.7%	+/- 20%	
Barium	6010C	177	215	19.4%	+/- 20%	
Cadmium	6010C	1.8	2.0	10.5%	+/- 0.5	L
Chromium	6010C	31	29	6.7%	+/- 20%	
Lead	200.8	132	96.1	31.5%	+/- 20%	*
Mercury	7471A	0.05	0.05	0.0%	+/- 0.03	L
Selenium	6010C	10 U	10 U	0.0%	+/- 10	L
Silver	6010C	0.8 U	0.8 U	0.0%	+/- 0.8	L

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P01-04
MATRIX SPIKE

Lab Sample ID: WD14A
LIMS ID: 13-2848
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	15.1	45.3	28.5	106%	
Barium	6010C	177	382	212	96.7%	
Cadmium	6010C	1.8	59.1	53.0	108%	
Chromium	6010C	31	86	53.0	104%	
Lead	200.8	132	159	28.5	94.7%	H
Mercury	7471A	0.05	0.35	0.269	112%	
Selenium	6010C	10 U	210	212	99.1%	
Silver	6010C	0.8 U	54.1	53.0	102%	

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P02-03
SAMPLE

Lab Sample ID: WD14B
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 85.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**4.9**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**93.4**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.5**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.6	**38.0**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**81.8**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.02	**0.09**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	6	6	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P04-06
SAMPLE

Lab Sample ID: WD14C
LIMS ID: 13-2850
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 91.4%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.2**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**35.7**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**27.6**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**1.5**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P03-03
SAMPLE

Lab Sample ID: WD14D
LIMS ID: 13-2851
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 83.6%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**8.6**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**149**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.7**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**41.1**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**74.9**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.03	**0.10**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P05-06
SAMPLE

Lab Sample ID: WD14E
LIMS ID: 13-2852
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 93.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.5**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**35.2**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**36.1**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**1.5**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P06-03
SAMPLE

Lab Sample ID: WD14F
LIMS ID: 13-2853
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 87.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**0.8**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**40.5**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.3**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**23.9**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**2.4**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P07-03
SAMPLE

Lab Sample ID: WD14G
LIMS ID: 13-2854
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 53.3%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.4	**26.9**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.5	**347**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.3	**0.8**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.9	**33.0**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	4	**5,570**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.04	**0.08**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	9	9	U
3050B	02/11/13	6010C	02/12/13	**7440-22-4**	**Silver**	0.5	**1.0**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P08-02
SAMPLE

Lab Sample ID: WD14H
LIMS ID: 13-2855
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 76.0%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**5.7**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.4	**423**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.8**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.6	**26.6**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**124**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.03	**0.07**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	6	6	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.4	0.4	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P09-04
SAMPLE

Lab Sample ID: WD14I
LIMS ID: 13-2856
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 81.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**5.3**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.9	**57.3**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.6	**0.7**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	1	**31**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**48.3**	
CLP	02/11/13	7471A	02/12/13	**7439-97-6**	**Mercury**	0.02	**0.42**	
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	10	10	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.9	0.9	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD14MB
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	7440-38-2	Arsenic	0.2	0.2	U
3050B	02/11/13	6010C	02/12/13	7440-39-3	Barium	0.3	0.3	U
3050B	02/11/13	6010C	02/12/13	7440-43-9	Cadmium	0.2	0.2	U
3050B	02/11/13	6010C	02/12/13	7440-47-3	Chromium	0.5	0.5	U
3050B	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD14LCS
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	28.8	25.0	115%	
Barium	6010C	201	200	100%	
Cadmium	6010C	52.5	50.0	105%	
Chromium	6010C	50.6	50.0	101%	
Lead	200.8	27.8	25.0	111%	
Mercury	7471A	0.51	0.50	102%	
Selenium	6010C	206	200	103%	
Silver	6010C	52.0	50.0	104%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

Analytical Resources, Inc. #WD15

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 13, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WD15

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted two water samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC.

The VOCs CCAL is out of control high for all associated FORM III "Q" flagged analytes. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs LCS and/or LCSD are out of control low for 2-Chloroethylvinylether and/or acrolein. All other spike recoveries are in control and no further corrective action was taken.

The cPAHs CCAL is out of control low for Benzo (a) anthracene. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The PCP surrogate 2,4,6-Tribromophenol is out of control high in the LCS. The LCS spike recoveries are in control and no further corrective action was taken.

There were no other anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WD15

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WJ15	Turn-around Requested: 5-days	Page: 1 of 1	
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133	Date: 2-8-'13	Ice Present? Y
Client Contact: Marrell Livesay		No. of Coolers: 1	Cooler Temps: 6.6
Client Project Name: Bryant Building			
Client Project #: WP 20118	Samplers: CEC		

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs (8260C)	Carcinogenic PAHs (8270)	Pentachlorophenol (8041)			Notes/Comments
P10-20130208	2-8-'13	0830	Water	10	X	X	X	X	X	X			
P11-20130208	"	0930	"	"	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Send copy of lab report to Chris Cass of Sound Earth ccass@soundearthinc.com	Chris Cass	Jennifer Millsap		
	Printed Name: Chris Cass	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: Sound Earth Strategies, Inc.	Company: ARI	Company:	Company:
	Date & Time: 2/8/2013 @1140	Date & Time: 2/8/13 1140	Date & Time	Date & Time.

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Sound Earth

Project Name: Bryant Building

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier (Hand Delivered) Other: _____

Assigned ARI Job No: W015

Tracking No. _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6 0 °C for chemistry): 2.6

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 2/8/13 Time: 1140

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI....	(NA)	_____	

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment _____ Split by: _____

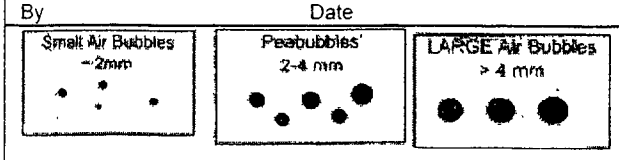
Samples Logged by: TS Date: 2-8-13 Time: 1226

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By Date



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WD15
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P10-20130208	WD15A	13-2819	Water	02/08/13 08:30	02/08/13 11:40
2.	P11-20130208	WD15B	13-2820	Water	02/08/13 09:30	02/08/13 11:40

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-20130208**
 SAMPLE

Lab Sample ID: WD15A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 20:36

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	**1,1,2-Trichloroethane**	**0.20**	**0.22**	**M**
71-43-2	**Benzene**	**0.20**	**0.38**	
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-20130208**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD15A
LIMS ID: 13-2819
Matrix: Water
Date Analyzed: 02/08/13 20:36

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.5%
d8-Toluene	94.9%
Bromofluorobenzene	95.6%
d4-1,2-Dichlorobenzene	101%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P11-20130208**
 SAMPLE

Lab Sample ID: WD15B
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 21:03

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	**Benzene**	**0.20**	**0.35**	
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	**Toluene**	**0.20**	**0.25**	
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volåtiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P11-20130208**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD15B
LIMS ID: 13-2820
Matrix: Water
Date Analyzed: 02/08/13 21:03

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	96.2%
d8-Toluene	93.3%
Bromofluorobenzene	94.9%
d4-1,2-Dichlorobenzene	99.6%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-020813A**
 METHOD BLANK

Lab Sample ID: MB-020813A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT2/PKC
Date Analyzed: 02/08/13 14:41

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-020813A
METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-020813A
LIMS ID: 13-2819
Matrix: Water
Date Analyzed: 02/08/13 14:41

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	98.0%
d8-Toluene	95.6%
Bromofluorobenzene	97.0%
d4-1,2-Dichlorobenzene	99.8%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020813A	Method Blank	10	98.0%	95.6%	97.0%	99.8%	0
LCS-020813A	Lab Control	10	101%	99.8%	103%	102%	0
LCSD-020813A	Lab Control Dup	10	98.1%	96.7%	100%	102%	0
WD15A	P10-20130208	10	98.5%	94.9%	95.6%	101%	0
WD15B	P11-20130208	10	96.2%	93.3%	94.9%	99.6%	0

SW8260C	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-120)	(80-130)
(TOL) = d8-Toluene	(80-120)	(80-120)
(BFB) = Bromofluorobenzene	(80-120)	(80-120)
(DCB) = d4-1,2-Dichlorobenzene	(80-120)	(80-120)

Prep Method: SW5030B
Log Number Range: 13-2819 to 13-2820

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020813A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT2/PKC
LCSD: NT2/PKC
Date Analyzed LCS: 02/08/13 13:48
LCSD: 02/08/13 14:15

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	8.99	10.0	89.9%	8.39	10.0	83.9%	6.9%
Bromomethane	9.09	10.0	90.9%	9.41	10.0	94.1%	3.5%
Vinyl Chloride	8.81	10.0	88.1%	8.42	10.0	84.2%	4.5%
Chloroethane	7.80 Q	10.0	78.0%	8.02 Q	10.0	80.2%	2.8%
Methylene Chloride	8.54	10.0	85.4%	8.45	10.0	84.5%	1.1%
Acetone	44.4	50.0	88.8%	42.7	50.0	85.4%	3.9%
Carbon Disulfide	8.79	10.0	87.9%	8.74	10.0	87.4%	0.6%
1,1-Dichloroethene	9.49	10.0	94.9%	9.27	10.0	92.7%	2.3%
1,1-Dichloroethane	9.39	10.0	93.9%	9.19	10.0	91.9%	2.2%
trans-1,2-Dichloroethene	8.17 Q	10.0	81.7%	7.97 Q	10.0	79.7%	2.5%
cis-1,2-Dichloroethene	8.46	10.0	84.6%	8.29	10.0	82.9%	2.0%
Chloroform	9.47	10.0	94.7%	9.12	10.0	91.2%	3.8%
1,2-Dichloroethane	10.2	10.0	102%	9.44	10.0	94.4%	7.7%
2-Butanone	48.9	50.0	97.8%	47.1	50.0	94.2%	3.8%
1,1,1-Trichloroethane	9.12	10.0	91.2%	8.71	10.0	87.1%	4.6%
Carbon Tetrachloride	9.66	10.0	96.6%	9.05	10.0	90.5%	6.5%
Vinyl Acetate	8.30	10.0	83.0%	8.52	10.0	85.2%	2.6%
Bromodichloromethane	10.2	10.0	102%	9.29	10.0	92.9%	9.3%
1,2-Dichloropropane	9.86	10.0	98.6%	9.68	10.0	96.8%	1.8%
cis-1,3-Dichloropropene	9.86	10.0	98.6%	9.48	10.0	94.8%	3.9%
Trichloroethene	10.4	10.0	104%	10.1	10.0	101%	2.9%
Dibromochloromethane	9.94	10.0	99.4%	9.74	10.0	97.4%	2.0%
1,1,2-Trichloroethane	10.2	10.0	102%	9.49	10.0	94.9%	7.2%
Benzene	9.94	10.0	99.4%	9.80	10.0	98.0%	1.4%
trans-1,3-Dichloropropene	10.3	10.0	103%	9.76	10.0	97.6%	5.4%
2-Chloroethylvinylether	5.88 Q	10.0	58.8%	5.70 Q	10.0	57.0%	3.1%
Bromoform	9.50	10.0	95.0%	9.17	10.0	91.7%	3.5%
4-Methyl-2-Pentanone (MIBK)	50.3	50.0	101%	50.9	50.0	102%	1.2%
2-Hexanone	49.5	50.0	99.0%	49.1	50.0	98.2%	0.8%
Tetrachloroethene	9.69	10.0	96.9%	9.67	10.0	96.7%	0.2%
1,1,2,2-Tetrachloroethane	8.79	10.0	87.9%	8.90	10.0	89.0%	1.2%
Toluene	9.87	10.0	98.7%	9.57	10.0	95.7%	3.1%
Chlorobenzene	9.68	10.0	96.8%	10.0	10.0	100%	3.3%
Ethylbenzene	9.95	10.0	99.5%	9.96	10.0	99.6%	0.1%
Styrene	9.89	10.0	98.9%	9.96	10.0	99.6%	0.7%
Trichlorofluoromethane	9.15	10.0	91.5%	8.85	10.0	88.5%	3.3%
1,1,2-Trichloro-1,2,2-trifluoroetha	9.46	10.0	94.6%	8.98	10.0	89.8%	5.2%
m,p-Xylene	19.7	20.0	98.5%	19.7	20.0	98.5%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020813A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813A
LIMS ID: 13-2819
Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
o-Xylene	9.42	10.0	94.2%	9.60	10.0	96.0%	1.9%
1,2-Dichlorobenzene	9.85	10.0	98.5%	9.61	10.0	96.1%	2.5%
1,3-Dichlorobenzene	9.72	10.0	97.2%	9.45	10.0	94.5%	2.8%
1,4-Dichlorobenzene	9.47	10.0	94.7%	9.29	10.0	92.9%	1.9%
Acrolein	29.0 Q	50.0	58.0%	34.4 Q	50.0	68.8%	17.0%
Iodomethane	9.13	10.0	91.3%	9.06	10.0	90.6%	0.8%
Bromoethane	8.80	10.0	88.0%	8.81	10.0	88.1%	0.1%
Acrylonitrile	9.06	10.0	90.6%	8.29	10.0	82.9%	8.9%
1,1-Dichloropropene	9.87	10.0	98.7%	9.63	10.0	96.3%	2.5%
Dibromomethane	9.70	10.0	97.0%	9.43	10.0	94.3%	2.8%
1,1,1,2-Tetrachloroethane	9.95	10.0	99.5%	9.95	10.0	99.5%	0.0%
1,2-Dibromo-3-chloropropane	10.8	10.0	108%	10.4	10.0	104%	3.8%
1,2,3-Trichloropropane	9.22	10.0	92.2%	9.20	10.0	92.0%	0.2%
trans-1,4-Dichloro-2-butene	8.72	10.0	87.2%	8.32	10.0	83.2%	4.7%
1,3,5-Trimethylbenzene	9.58	10.0	95.8%	9.22	10.0	92.2%	3.8%
1,2,4-Trimethylbenzene	9.49	10.0	94.9%	9.32	10.0	93.2%	1.8%
Hexachlorobutadiene	9.07	10.0	90.7%	8.96	10.0	89.6%	1.2%
1,2-Dibromoethane	10.3	10.0	103%	9.81	10.0	98.1%	4.9%
Bromochloromethane	9.78	10.0	97.8%	9.34	10.0	93.4%	4.6%
2,2-Dichloropropane	8.58 Q	10.0	85.8%	8.06 Q	10.0	80.6%	6.2%
1,3-Dichloropropane	9.71	10.0	97.1%	9.83	10.0	98.3%	1.2%
Isopropylbenzene	9.33	10.0	93.3%	8.98	10.0	89.8%	3.8%
n-Propylbenzene	9.13	10.0	91.3%	8.77	10.0	87.7%	4.0%
Bromobenzene	9.20	10.0	92.0%	9.28	10.0	92.8%	0.9%
2-Chlorotoluene	9.16	10.0	91.6%	8.92	10.0	89.2%	2.7%
4-Chlorotoluene	9.29	10.0	92.9%	8.86	10.0	88.6%	4.7%
tert-Butylbenzene	9.77	10.0	97.7%	9.39	10.0	93.9%	4.0%
sec-Butylbenzene	9.38	10.0	93.8%	9.22	10.0	92.2%	1.7%
4-Isopropyltoluene	9.57	10.0	95.7%	9.23	10.0	92.3%	3.6%
n-Butylbenzene	9.50	10.0	95.0%	9.23	10.0	92.3%	2.9%
1,2,4-Trichlorobenzene	10.8	10.0	108%	10.7	10.0	107%	0.9%
Naphthalene	10.5	10.0	105%	10.5	10.0	105%	0.0%
1,2,3-Trichlorobenzene	10.6	10.0	106%	10.6	10.0	106%	0.0%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	101%	98.1%
d8-Toluene	99.8%	96.7%
Bromofluorobenzene	103%	100%
d4-1,2-Dichlorobenzene	102%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P10-20130208
SAMPLE

Lab Sample ID: WD15A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 04:29
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	88.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: P11-20130208
SAMPLE

Lab Sample ID: WD15B
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 05:05
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	67.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 21:15
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	88.8%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	TBP	TOT OUT
MB-020913	88.8%	0
LCS-020913	98.6%*	1
LCSD-020913	95.6%	0
P10-20130208	88.0%	0
P11-20130208	67.2%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(41-98)	(26-113)

Prep Method: SW3510C
Log Number Range: 13-2819 to 13-2820

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/12/13 21:52
LCSD: 02/12/13 22:28
Instrument/Analyst LCS: ECD1/YZ
LCSD: ECD1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 50 mL
LCSD: 50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	2.04	2.50	81.6%	2.28	2.50	91.2%	11.1%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	98.6%	95.6%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P10-20130208
SAMPLE

Lab Sample ID: WD15A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 20:18
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.0%
d14-Dibenzo(a,h)anthracene	51.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: P11-20130208
SAMPLE

Lab Sample ID: WD15B
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 20:46
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	**Benzo(a)anthracene**	**0.10**	**0.05 Q**
218-01-9	**Chrysene**	**0.10**	**0.18**
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.7%
d14-Dibenzo(a,h)anthracene	43.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MB-020813
METHOD BLANK

Lab Sample ID: MB-020813
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/08/13
Date Analyzed: 02/11/13 15:14
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	68.7%
d14-Dibenzo(a,h)anthracene	78.0%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	MNP	DBA	TOT OUT
MB-020813	68.7%	78.0%	0
LCS-020813	67.0%	84.3%	0
LCSD-020813	69.3%	88.0%	0
P10-20130208	67.0%	51.3%	0
P11-20130208	67.7%	43.0%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(40-110)	(33-107)
(DBA) = d14-Dibenzo(a,h)anthracene	(33-140)	(10-142)

Prep Method: SW3520C
Log Number Range: 13-2819 to 13-2820

FORM-II SIM SW8270

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample ID: LCS-020813
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 02/08/13

Date Analyzed LCS: 02/11/13 15:42
LCSD: 02/11/13 16:10
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzo(a)anthracene	2.18 Q	3.00	72.7%	2.33 Q	3.00	77.7%	6.7%
Chrysene	2.08	3.00	69.3%	2.26	3.00	75.3%	8.3%
Benzo(a)pyrene	1.79	3.00	59.7%	1.84	3.00	61.3%	2.8%
Indeno(1,2,3-cd)pyrene	1.98	3.00	66.0%	2.17	3.00	72.3%	9.2%
Dibenz(a,h)anthracene	1.93	3.00	64.3%	2.10	3.00	70.0%	8.4%
Total Benzofluoranthenes	6.48	9.00	72.0%	6.90	9.00	76.7%	6.3%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	67.0%	69.3%
d14-Dibenzo(a,h)anthracene	84.3%	88.0%

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Extraction Method:

ANALYTICAL RESOURCES INCORPORATED

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

Matrix: Water
Data Release Authorized:
Reported: 02/12/13

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DF	Range/Surrogate	RL	Result
MB-020913	Method Blank	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2819	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		88.1%
WD15A	P10-20130208	02/09/13	02/11/13	1.00	Diesel Range	0.10	< 0.10 U
13-2819	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		87.1%
WD15B	P11-20130208	02/09/13	02/11/13	1.00	**Diesel Range**	**0.10**	**0.14**
13-2820	HC ID: **DRO/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**0.20**	**1.1**
					o-Terphenyl		60.9%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

*Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	OTER	TOT OUT
MB-020913	88.1%	0
LCS-020913	78.2%	0
LCSD-020913	85.5%	0
P10-20130208	87.1%	0
P11-20130208	60.9%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3510C
Log Number Range: 13-2819 to 13-2820

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/11/13 17:46
LCSD: 02/11/13 18:06
Instrument/Analyst LCS: FID/JLW
LCSD: FID/JLW

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	1.92	3.00	64.0%	2.15	3.00	71.7%	11.3%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	78.2%	85.5%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

Matrix: Water
Date Received: 02/08/13

ARI Job: WD15
Project: Bryant Building
WP201108

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
13-2819-020913MB1	Method Blank	500 mL	1.00 mL	02/09/13
13-2819-020913LCS1	Lab Control	500 mL	1.00 mL	02/09/13
13-2819-020913LCSD1	Lab Control Dup	500 mL	1.00 mL	02/09/13
13-2819-WD15A	P10-20130208	500 mL	1.00 mL	02/09/13
13-2820-WD15B	P11-20130208	500 mL	1.00 mL	02/09/13

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Water

Data Release Authorized:
Reported: 02/11/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

ARI ID	Client ID	Analysis Date	DL	Range	Result
MB-020813	Method Blank	02/08/13	1.0	Gasoline	< 0.25 U
13-2819		PID1		HC ID	---
				Trifluorotoluene	92.7%
				Bromobenzene	95.3%
WD15A	P10-20130208	02/08/13	1.0	Gasoline	< 0.25 U
13-2819		PID1		HC ID	---
				Trifluorotoluene	89.4%
				Bromobenzene	91.7%
WD15B	P11-20130208	02/08/13	1.0	Gasoline	< 0.25 U
13-2820		PID1		HC ID	---
				Trifluorotoluene	83.9%
				Bromobenzene	83.4%

Gasoline values reported in mg/L (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: WD15
Matrix: Water

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108

Client ID	TFT	BBZ	TOT OUT
MB-020813	92.7%	95.3%	0
LCS-020813	95.7%	94.8%	0
LCSD-020813	96.9%	95.0%	0
P10-20130208	89.4%	91.7%	0
P11-20130208	83.9%	83.4%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 13-2819 to 13-2820

FORM II TPHG

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-020813
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020813
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/11/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/08/13 12:20
LCSD: 02/08/13 12:49
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.03	1.00	103%	1.01	1.00	101%	2.0%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	95.7%	96.9%
Bromobenzene	94.8%	95.0%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P10-20130208
SAMPLE

Lab Sample ID: WD15A
LIMS ID: 13-2819
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**3.6**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**31**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P11-20130208
SAMPLE

Lab Sample ID: WD15B
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**2.6**	
3010A	02/08/13	6010C	02/11/13	**7440-39-3**	**Barium**	3	**48**	
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD15MB
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	7440-38-2	Arsenic	0.2	0.2	U
3010A	02/08/13	6010C	02/11/13	7440-39-3	Barium	3	3	U
3010A	02/08/13	6010C	02/11/13	7440-43-9	Cadmium	2	2	U
3010A	02/08/13	6010C	02/11/13	7440-47-3	Chromium	5	5	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
7470A	02/11/13	7470A	02/12/13	7439-97-6	Mercury	0.1	0.1	U
3010A	02/08/13	6010C	02/11/13	7782-49-2	Selenium	50	50	U
3010A	02/08/13	6010C	02/11/13	7440-22-4	Silver	3	3	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD15LCS
LIMS ID: 13-2820
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD15-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	29.6	25.0	118%	
Barium	6010C	2090	2000	104%	
Cadmium	6010C	514	500	103%	
Chromium	6010C	516	500	103%	
Lead	200.8	28.4	25.0	114%	
Mercury	7470A	2.1	2.0	105%	
Selenium	6010C	1990	2000	99.5%	
Silver	6010C	529	500	106%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Inc. #WC64 and WD27

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 13, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WC64, WD27

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted four water samples on February 6, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC.

The VOCs CCAL is out of control high for all associated FORM III "Q" flagged analytes. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs LCSD is out of control high for chloroform and 1,1,2-Trichloro-1,2,2-trifluoroethane. The LCS is in control and no further corrective action was taken.

The VOCs method blank surrogate d4-1,2-Dichlorobenzene is out of control high. The associated method blank is non-detect and no further corrective action was taken.

There were no further anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WC64, WD27

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: W0C64	Turn-around Requested: 5-days
ARI Client Company: Seattle Parks & Recreation	Phone: 206 684-7133
Client Contact: Martell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: Chris Cass / Danny Naylor

Page: 1	of 1
Date: 2-5-2013	Ice Present? Y
No. of Coolers: 1	Cooler Temps: 5.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Gx	NWTPH-Dx	RCRA 8 Metals	VOCs 8260C	carcinogenic PAHs (8270C)	pentachloro-phenols PCPs			Notes/Comments
MW14-20130205	2-5-13	1245	Water	10	X	X	X	X	X	X			
MW16-20130205	↓	1232	↓	10	X	X	X	X	X	X			
MW05-20130205	↓	1515	↓	10	X	X	X	X	X	X			
MW11-20130205	↓	1509	↓	10 ~~09~~	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Send copy of report to Chris Cass at soundearthstrategies.com, ccass@soundearthinc.com	[signature]	[signature]		
	Printed Name: Warren P. Rajkovich	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: SoundEarth Strategies	Company: ARI	Company:	Company:
	Date & Time: 2/6/13 09:40	Date & Time: 2/6/13 940	Date & Time	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Seattle Parks Rec

Project Name: Bryant Building

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: WC64

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6 0 °C for chemistry): 5.3

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 2/6/13 Time: 940

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI: (NA) YES Date/Time _____ Equipment _____ Split by: _____

Samples Logged by: AV Date: 2/6/13 Time: 1107

***** Notify Project Manager of discrepancies or concerns *****

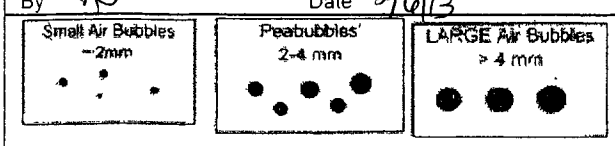
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

MW14 = 2Lg

MW05 = 1pb

By: AV Date: 2/6/13



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

PRESERVATION VERIFICATION 02/06/13

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **WC64**

PC: Kelly
VTSR: 02/06/13

Inquiry Number: NONE
Analysis Requested: 02/06/13
Contact: Cass, Chris
Client: Sound Earth Strategies
Logged by: AV
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: WP201108
Project: Bryant Building
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
13-2575 **WC64A**	MW14-20130205						TOT PASS															
13-2576 **WC64B**	MW16-20130205						TOT PASS															
13-2577 **WC64C**	MW05-20130205						TOT PASS															
13-2578 **WC64D**	MW11-20130205						TOT PASS															

Checked By AV Date 2/6/13

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WC64
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	MW14-20130205	WC64A	13-2575	Water	02/05/13 12:45	02/06/13 09:40
2.	MW16-20130205	WC64B	13-2576	Water	02/05/13 12:32	02/06/13 09:40
3.	MW05-20130205	WC64C	13-2577	Water	02/05/13 15:15	02/06/13 09:40
4.	MW11-20130205	WC64D	13-2578	Water	02/05/13 15:09	02/06/13 09:40

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW14-20130205**
 SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Instrument/Analyst: NT3/PAB
Date Analyzed: 02/06/13 14:37

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	**1,3-Dichlorobenzene**	**0.20**	**0.29**	
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW14-20130205**
 SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Date Analyzed: 02/06/13 14:37

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	128%
d8-Toluene	101%
Bromofluorobenzene	99.8%
d4-1,2-Dichlorobenzene	110%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW16-20130205**
 SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Instrument/Analyst: NT3/PAB
Date Analyzed: 02/06/13 15:04

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	**1,3-Dichlorobenzene**	**0.20**	**0.25**	
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW16-20130205**
 SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Date Analyzed: 02/06/13 15:04

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	102%
Bromofluorobenzene	97.5%
d4-1,2-Dichlorobenzene	103%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW05-20130205**
 SAMPLE

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Instrument/Analyst: NT3/PAB
Date Analyzed: 02/06/13 15:31

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	**Trichloroethene**	**0.20**	**1.1**	
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW05-20130205**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Date Analyzed: 02/06/13 15:31

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	129%
d8-Toluene	106%
Bromofluorobenzene	97.8%
d4-1,2-Dichlorobenzene	112%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW11-20130205**
 SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Instrument/Analyst: NT3/PAB
Date Analyzed: 02/06/13 15:58

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	**Toluene**	**0.20**	**0.21**	
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	**1,3-Dichlorobenzene**	**0.20**	**0.25**	
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MW11-20130205**
 SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Date Analyzed: 02/06/13 15:58

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	**Isopropylbenzene**	**0.20**	**0.89**	
103-65-1	**n-Propylbenzene**	**0.20**	**1.7**	
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	**tert-Butylbenzene**	**0.20**	**0.24**	
135-98-8	**sec-Butylbenzene**	**0.20**	**2.2**	
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	**n-Butylbenzene**	**0.20**	**0.41**	
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	127%
d8-Toluene	108%
Bromofluorobenzene	112%
d4-1,2-Dichlorobenzene	109%

2-Chloroethylvinylether is an acid labile compound and may not be recovered from an acid preserved sample.

EPA SW-846 indicates that vinyl chloride and styrene may degrade in the presence of acid preservative.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-020613A**
 METHOD BLANK

Lab Sample ID: MB-020613A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT3/PAB
Date Analyzed: 02/06/13 10:38

Sample Amount: 10.0 mL
Purge Volume: 10.0 mL

CAS Number	Analyte	LOQ	Result	Q
74-87-3	Chloromethane	0.50	< 0.50	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	0.20	< 0.20	U
75-00-3	Chloroethane	0.20	< 0.20	U
75-09-2	Methylene Chloride	1.0	< 1.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	0.20	< 0.20	U
75-35-4	1,1-Dichloroethene	0.20	< 0.20	U
75-34-3	1,1-Dichloroethane	0.20	< 0.20	U
156-60-5	trans-1,2-Dichloroethene	0.20	< 0.20	U
156-59-2	cis-1,2-Dichloroethene	0.20	< 0.20	U
67-66-3	Chloroform	0.20	< 0.20	U
107-06-2	1,2-Dichloroethane	0.20	< 0.20	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	0.20	< 0.20	U
56-23-5	Carbon Tetrachloride	0.20	< 0.20	U
108-05-4	Vinyl Acetate	0.20	< 0.20	U
75-27-4	Bromodichloromethane	0.20	< 0.20	U
78-87-5	1,2-Dichloropropane	0.20	< 0.20	U
10061-01-5	cis-1,3-Dichloropropene	0.20	< 0.20	U
79-01-6	Trichloroethene	0.20	< 0.20	U
124-48-1	Dibromochloromethane	0.20	< 0.20	U
79-00-5	1,1,2-Trichloroethane	0.20	< 0.20	U
71-43-2	Benzene	0.20	< 0.20	U
10061-02-6	trans-1,3-Dichloropropene	0.20	< 0.20	U
110-75-8	2-Chloroethylvinylether	1.0	< 1.0	U
75-25-2	Bromoform	0.20	< 0.20	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	0.20	< 0.20	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	< 0.20	U
108-88-3	Toluene	0.20	< 0.20	U
108-90-7	Chlorobenzene	0.20	< 0.20	U
100-41-4	Ethylbenzene	0.20	< 0.20	U
100-42-5	Styrene	0.20	< 0.20	U
75-69-4	Trichlorofluoromethane	0.20	< 0.20	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.20	< 0.20	U
179601-23-1	m,p-Xylene	0.40	< 0.40	U
95-47-6	o-Xylene	0.20	< 0.20	U
95-50-1	1,2-Dichlorobenzene	0.20	< 0.20	U
541-73-1	1,3-Dichlorobenzene	0.20	< 0.20	U
106-46-7	1,4-Dichlorobenzene	0.20	< 0.20	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-020613A**
 METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-020613A
LIMS ID: 13-2575
Matrix: Water
Date Analyzed: 02/06/13 10:38

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	LOQ	Result	Q
107-02-8	Acrolein	5.0	< 5.0	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	0.20	< 0.20	U
107-13-1	Acrylonitrile	1.0	< 1.0	U
563-58-6	1,1-Dichloropropene	0.20	< 0.20	U
74-95-3	Dibromomethane	0.20	< 0.20	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	< 0.20	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	< 0.50	U
96-18-4	1,2,3-Trichloropropane	0.50	< 0.50	U
110-57-6	trans-1,4-Dichloro-2-butene	1.0	< 1.0	U
108-67-8	1,3,5-Trimethylbenzene	0.20	< 0.20	U
95-63-6	1,2,4-Trimethylbenzene	0.20	< 0.20	U
87-68-3	Hexachlorobutadiene	0.50	< 0.50	U
106-93-4	1,2-Dibromoethane	0.20	< 0.20	U
74-97-5	Bromochloromethane	0.20	< 0.20	U
594-20-7	2,2-Dichloropropane	0.20	< 0.20	U
142-28-9	1,3-Dichloropropane	0.20	< 0.20	U
98-82-8	Isopropylbenzene	0.20	< 0.20	U
103-65-1	n-Propylbenzene	0.20	< 0.20	U
108-86-1	Bromobenzene	0.20	< 0.20	U
95-49-8	2-Chlorotoluene	0.20	< 0.20	U
106-43-4	4-Chlorotoluene	0.20	< 0.20	U
98-06-6	tert-Butylbenzene	0.20	< 0.20	U
135-98-8	sec-Butylbenzene	0.20	< 0.20	U
99-87-6	4-Isopropyltoluene	0.20	< 0.20	U
104-51-8	n-Butylbenzene	0.20	< 0.20	U
120-82-1	1,2,4-Trichlorobenzene	0.50	< 0.50	U
91-20-3	Naphthalene	0.50	< 0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.50	< 0.50	U

Reported in µg/L (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	123%
d8-Toluene	102%
Bromofluorobenzene	97.1%
d4-1,2-Dichlorobenzene	108%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

ARI ID	Client ID	PV	DCE	TOL	BFB	DCB	TOT OUT
MB-020613A	Method Blank	10	123%*	102%	97.1%	108%	1
LCS-020613A	Lab Control	10	118%	104%	102%	103%	0
LCSD-020613A	Lab Control Dup	10	118%	108%	103%	102%	0
WC64A	MW14-20130205	10	128%	101%	99.8%	110%	0
WC64B	MW16-20130205	10	123%	102%	97.5%	103%	0
WC64C	MW05-20130205	10	129%	106%	97.8%	112%	0
WC64D	MW11-20130205	10	127%	108%	112%	109%	0

SW8260C	LCS/MB LIMITS	QC LIMITS
(DCE) = d4-1,2-Dichloroethane	(80-120)	(80-130)
(TOL) = d8-Toluene	(80-120)	(80-120)
(BFB) = Bromofluorobenzene	(80-120)	(80-120)
(DCB) = d4-1,2-Dichlorobenzene	(80-120)	(80-120)

Prep Method: SW5030B
Log Number Range: 13-2575 to 13-2578

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020613A**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-020613A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT3/PAB
LCSD: NT3/PAB
Date Analyzed LCS: 02/06/13 09:44
LCSD: 02/06/13 10:11

Sample Amount LCS: 10.0 mL
LCSD: 10.0 mL
Purge Volume LCS: 10.0 mL
LCSD: 10.0 mL

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	9.92	10.0	99.2%	10.2	10.0	102%	2.8%
Bromomethane	10.8	10.0	108%	10.9	10.0	109%	0.9%
Vinyl Chloride	10.9	10.0	109%	11.0	10.0	110%	0.9%
Chloroethane	11.2	10.0	112%	11.3	10.0	113%	0.9%
Methylene Chloride	11.0	10.0	110%	10.9	10.0	109%	0.9%
Acetone	55.7	50.0	111%	52.2	50.0	104%	6.5%
Carbon Disulfide	11.2	10.0	112%	11.2	10.0	112%	0.0%
1,1-Dichloroethene	11.0	10.0	110%	11.0	10.0	110%	0.0%
1,1-Dichloroethane	11.8	10.0	118%	11.4	10.0	114%	3.4%
trans-1,2-Dichloroethene	10.9	10.0	109%	10.1	10.0	101%	7.6%
cis-1,2-Dichloroethene	10.9	10.0	109%	10.7	10.0	107%	1.9%
Chloroform	12.0 Q	10.0	120%	12.1 Q	10.0	121%	0.8%
1,2-Dichloroethane	11.0	10.0	110%	10.8	10.0	108%	1.8%
2-Butanone	53.1	50.0	106%	53.5	50.0	107%	0.8%
1,1,1-Trichloroethane	11.6	10.0	116%	12.0	10.0	120%	3.4%
Carbon Tetrachloride	10.7	10.0	107%	10.3	10.0	103%	3.8%
Vinyl Acetate	9.85	10.0	98.5%	10.1	10.0	101%	2.5%
Bromodichloromethane	10.8	10.0	108%	10.8	10.0	108%	0.0%
1,2-Dichloropropane	10.3	10.0	103%	10.2	10.0	102%	1.0%
cis-1,3-Dichloropropene	9.98	10.0	99.8%	10.6	10.0	106%	6.0%
Trichloroethene	9.63	10.0	96.3%	9.77	10.0	97.7%	1.4%
Dibromochloromethane	9.77	10.0	97.7%	9.59	10.0	95.9%	1.9%
1,1,2-Trichloroethane	10.4	10.0	104%	10.7	10.0	107%	2.8%
Benzene	10.8	10.0	108%	10.8	10.0	108%	0.0%
trans-1,3-Dichloropropene	10.5	10.0	105%	10.6	10.0	106%	0.9%
2-Chloroethylvinylether	7.88	10.0	78.8%	8.39	10.0	83.9%	6.3%
Bromoform	9.07	10.0	90.7%	8.85	10.0	88.5%	2.5%
4-Methyl-2-Pentanone (MIBK)	51.8	50.0	104%	53.4	50.0	107%	3.0%
2-Hexanone	44.8	50.0	89.6%	44.1	50.0	88.2%	1.6%
Tetrachloroethene	9.55	10.0	95.5%	9.45	10.0	94.5%	1.1%
1,1,2,2-Tetrachloroethane	9.07	10.0	90.7%	9.33	10.0	93.3%	2.8%
Toluene	10.4	10.0	104%	10.5	10.0	105%	1.0%
Chlorobenzene	9.79	10.0	97.9%	9.91	10.0	99.1%	1.2%
Ethylbenzene	10.0	10.0	100%	9.96	10.0	99.6%	0.4%
Styrene	10.4	10.0	104%	10.0	10.0	100%	3.9%
Trichlorofluoromethane	10.8	10.0	108%	11.4	10.0	114%	5.4%
1,1,2-Trichloro-1,2,2-trifluoroetha	12.3 Q	10.0	123%	12.9 Q	10.0	129%	4.8%
m,p-Xylene	20.6	20.0	103%	20.6	20.0	103%	0.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-020613A**
 LAB CONTROL SAMPLE

Lab Sample ID: LCS-020613A
LIMS ID: 13-2575
Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
o-Xylene	9.92	10.0	99.2%	9.90	10.0	99.0%	0.2%
1,2-Dichlorobenzene	9.80	10.0	98.0%	9.84	10.0	98.4%	0.4%
1,3-Dichlorobenzene	10.0	10.0	100%	9.69	10.0	96.9%	3.1%
1,4-Dichlorobenzene	9.72	10.0	97.2%	9.73	10.0	97.3%	0.1%
Acrolein	56.4 Q	50.0	113%	54.9 Q	50.0	110%	2.7%
Iodomethane	10.8	10.0	108%	10.9	10.0	109%	0.9%
Bromoethane	11.1	10.0	111%	11.0	10.0	110%	0.9%
Acrylonitrile	11.1	10.0	111%	9.80	10.0	98.0%	12.4%
1,1-Dichloropropene	9.99	10.0	99.9%	10.3	10.0	103%	3.1%
Dibromomethane	10.4	10.0	104%	10.1	10.0	101%	2.9%
1,1,1,2-Tetrachloroethane	10.6	10.0	106%	10.3	10.0	103%	2.9%
1,2-Dibromo-3-chloropropane	8.58	10.0	85.8%	9.44	10.0	94.4%	9.5%
1,2,3-Trichloropropane	9.00	10.0	90.0%	9.36	10.0	93.6%	3.9%
trans-1,4-Dichloro-2-butene	9.32	10.0	93.2%	9.37	10.0	93.7%	0.5%
1,3,5-Trimethylbenzene	9.79	10.0	97.9%	9.59	10.0	95.9%	2.1%
1,2,4-Trimethylbenzene	10.0	10.0	100%	9.87	10.0	98.7%	1.3%
Hexachlorobutadiene	8.94	10.0	89.4%	8.73	10.0	87.3%	2.4%
1,2-Dibromoethane	10.2	10.0	102%	10.6	10.0	106%	3.8%
Bromochloromethane	11.8	10.0	118%	10.9	10.0	109%	7.9%
2,2-Dichloropropane	10.8	10.0	108%	10.7	10.0	107%	0.9%
1,3-Dichloropropane	9.37	10.0	93.7%	9.38	10.0	93.8%	0.1%
Isopropylbenzene	9.59	10.0	95.9%	9.70	10.0	97.0%	1.1%
n-Propylbenzene	9.82	10.0	98.2%	9.71	10.0	97.1%	1.1%
Bromobenzene	8.95	10.0	89.5%	8.97	10.0	89.7%	0.2%
2-Chlorotoluene	9.60	10.0	96.0%	9.58	10.0	95.8%	0.2%
4-Chlorotoluene	9.72	10.0	97.2%	9.52	10.0	95.2%	2.1%
tert-Butylbenzene	9.13	10.0	91.3%	9.15	10.0	91.5%	0.2%
sec-Butylbenzene	9.90	10.0	99.0%	9.90	10.0	99.0%	0.0%
4-Isopropyltoluene	9.60	10.0	96.0%	9.75	10.0	97.5%	1.6%
n-Butylbenzene	9.96	10.0	99.6%	10.1	10.0	101%	1.4%
1,2,4-Trichlorobenzene	9.20	10.0	92.0%	9.43	10.0	94.3%	2.5%
Naphthalene	8.24	10.0	82.4%	9.02	10.0	90.2%	9.0%
1,2,3-Trichlorobenzene	8.34	10.0	83.4%	9.29	10.0	92.9%	10.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	118%	118%
d8-Toluene	104%	108%
Bromofluorobenzene	102%	103%
d4-1,2-Dichlorobenzene	103%	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MW14-20130205
SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 19:00
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	**Pentachlorophenol**	**0.25**	**0.40**

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	80.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MW16-20130205
SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 19:36
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	72.4%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 20:12
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	68.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MW11-20130205
SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 21:24
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	66.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3510C

Sample ID: MB-020613
METHOD BLANK

Lab Sample ID: MB-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 17:11
Instrument/Analyst: ECD1/YZ

Sample Amount: 500 mL
Final Extract Volume: 50 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	0.25	< 0.25 U

Reported in µg/L (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	76.4%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	TBP	TOT OUT
MB-020613	76.4%	0
LCS-020613	88.0%	0
LCSD-020613	89.8%	0
MW14-20130205	80.8%	0
MW16-20130205	72.4%	0
MW05-20130205	68.0%	0
MW11-20130205	66.0%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(41-98)	(26-113)

Prep Method: SW3510C
Log Number Range: 13-2575 to 13-2578

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-020613
LCS/LCSD

Lab Sample ID: LCS-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted LCS/LCSD: 02/06/13

Date Analyzed LCS: 02/07/13 17:47
LCSD: 02/07/13 18:23
Instrument/Analyst LCS: ECD1/YZ
LCSD: ECD1/YZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 50 mL
LCSD: 50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	1.89	2.50	75.6%	2.09	2.50	83.6%	10.1%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	88.0%	89.8%

Results reported in µg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Water

Data Release Authorized:
Reported: 02/07/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

ARI ID	Client ID	Analysis Date	DL	Range	Result
MB-020613	Method Blank	02/06/13	1.0	Gasoline	< 0.25 U
13-2575		PID1		HC ID	---
				Trifluorotoluene	93.3%
				Bromobenzene	92.9%
WC64A	MW14-20130205	02/06/13	1.0	Gasoline	< 0.25 U
13-2575		PID1		HC ID	---
				Trifluorotoluene	82.2%
				Bromobenzene	88.0%
WC64B	MW16-20130205	02/06/13	1.0	Gasoline	< 0.25 U
13-2576		PID1		HC ID	---
				Trifluorotoluene	82.0%
				Bromobenzene	87.9%
WC64C	MW05-20130205	02/06/13	1.0	Gasoline	< 0.25 U
13-2577		PID1		HC ID	---
				Trifluorotoluene	83.7%
				Bromobenzene	87.8%
WC64D	MW11-20130205	02/06/13	1.0	**Gasoline**	**0.92**
13-2578		PID1		HC ID	GRO
				Trifluorotoluene	82.2%
				Bromobenzene	90.8%

Gasoline values reported in mg/L (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

ANALYTICAL RESOURCES INCORPORATED

TPHG WATER SURROGATE RECOVERY SUMMARY

ARI Job: WC64
Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108

Client ID	TFT	BBZ	TOT OUT
MB-020613	93.3%	92.9%	0
LCS-020613	85.8%	87.4%	0
LCSD-020613	85.8%	88.4%	0
MW14-20130205	82.2%	88.0%	0
MW16-20130205	82.0%	87.9%	0
MW05-20130205	83.7%	87.8%	0
MW11-20130205	82.2%	90.8%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(80-120)
(BBZ) = Bromobenzene	(80-120)	(80-120)

Log Number Range: 13-2575 to 13-2578

FORM II TPHG

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

Sample ID: LCS-020613
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/07/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/06/13 14:17
LCSD: 02/06/13 14:46
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Dilution Factor LCS: 1.0
LCSD: 1.0

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	1.02	1.00	102%	0.95	1.00	95.0%	7.1%

Reported in mg/L (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	85.8%	85.8%
Bromobenzene	87.4%	88.4%

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Extraction Method:

ANALYTICAL RESOURCES INCORPORATED

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

Matrix: Water
Data Release Authorized:
Reported: 02/08/13

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DF	Range/Surrogate	RL	Result
MB-020613	Method Blank	02/06/13	02/07/13	1.00	Diesel Range	0.10	< 0.10 U
13-2575	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		118%
WC64A	MW14-20130205	02/06/13	02/07/13	1.00	**Diesel Range**	**0.10**	**0.13**
13-2575	HC ID: **DRO**		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		101%
WC64B	MW16-20130205	02/06/13	02/07/13	1.00	Diesel Range	0.10	< 0.10 U
13-2576	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		111%
WC64C	MW05-20130205	02/06/13	02/07/13	1.00	Diesel Range	0.10	< 0.10 U
13-2577	HC ID: ---		FID4A	1.0	Motor Oil Range	0.20	< 0.20 U
					o-Terphenyl		111%
WC64D	MW11-20130205	02/06/13	02/07/13	1.00	**Diesel Range**	**0.10**	**3.8**
13-2578	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**0.20**	**0.50**
					o-Terphenyl		94.2%

Reported in mg/L (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	OTER	TOT OUT
MB-020613	118%	0
LCS-020613	110%	0
LCSD-020613	110%	0
MW14-20130205	101%	0
MW16-20130205	111%	0
MW05-20130205	111%	0
MW11-20130205	94.2%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3510C
Log Number Range: 13-2575 to 13-2578

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-020613
LCS/LCSD

Lab Sample ID: LCS-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted LCS/LCSD: 02/06/13

Date Analyzed LCS: 02/07/13 16:06
LCSD: 02/07/13 16:27
Instrument/Analyst LCS: FID/JGR
LCSD: FID/JGR

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	2.91	3.00	97.0%	2.95	3.00	98.3%	1.4%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	110%	110%

Results reported in mg/L
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: WC64
Matrix: Water — Project: Bryant Building
Date Received: 02/06/13 — WP201108

ARI ID	Client ID	Samp Amt	Final Vol	Prep Date
13-2575-020613MB1	Method Blank	500 mL	1.00 mL	02/06/13
13-2575-020613LCS1	Lab Control	500 mL	1.00 mL	02/06/13
13-2575-020613LCSD1	Lab Control Dup	500 mL	1.00 mL	02/06/13
13-2575-WC64A	MW14-20130205	500 mL	1.00 mL	02/06/13
13-2576-WC64B	MW16-20130205	500 mL	1.00 mL	02/06/13
13-2577-WC64C	MW05-20130205	500 mL	1.00 mL	02/06/13
13-2578-WC64D	MW11-20130205	500 mL	1.00 mL	02/06/13

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MW14-20130205
SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 16:30
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	69.7%
d14-Dibenzo(a,h)anthracene	41.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MW16-20130205
SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 16:58
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	72.3%
d14-Dibenzo(a,h)anthracene	38.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 17:26
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	73.3%
d14-Dibenzo(a,h)anthracene	34.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MW11-20130205
SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 17:53
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.7%
d14-Dibenzo(a,h)anthracene	72.7%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS
Extraction Method: SW3520C

Sample ID: MB-020613
METHOD BLANK

Lab Sample ID: MB-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/06/13
Date Analyzed: 02/07/13 13:44
Instrument/Analyst: NT4/JZ

Sample Amount: 500 mL
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	0.10	< 0.10 U
218-01-9	Chrysene	0.10	< 0.10 U
50-32-8	Benzo(a)pyrene	0.10	< 0.10 U
193-39-5	Indeno(1,2,3-cd)pyrene	0.10	< 0.10 U
53-70-3	Dibenz(a,h)anthracene	0.10	< 0.10 U
TOTBFA	Total Benzofluoranthenes	0.20	< 0.20 U

Reported in µg/L (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracene	87.7%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Water

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	MNP	DBA	TOT OUT
MB-020613	77.0%	87.7%	0
LCS-020613	77.0%	48.3%	0
LCSD-020613	73.3%	51.0%	0
MW14-20130205	69.7%	41.3%	0
MW16-20130205	72.3%	38.3%	0
MW05-20130205	73.3%	34.0%	0
MW11-20130205	70.7%	72.7%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(40-110)	(33-107)
(DBA) = d14-Dibenzo(a,h)anthracene	(33-140)	(10-142)

Prep Method: SW3520C
Log Number Range: 13-2575 to 13-2578

FORM-II SIM SW8270

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

ANALYTICAL RESOURCES INCORPORATED

Sample ID: LCS-020613
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020613
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted LCS/LCSD: 02/06/13

Date Analyzed LCS: 02/07/13 15:35
LCSD: 02/07/13 16:03
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 500 mL
LCSD: 500 mL
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzo(a)anthracene	1.45	3.00	48.3%	1.42	3.00	47.3%	2.1%
Chrysene	1.84	3.00	61.3%	1.82	3.00	60.7%	1.1%
Benzo(a)pyrene	1.35	3.00	45.0%	1.29	3.00	43.0%	4.5%
Indeno(1,2,3-cd)pyrene	1.49	3.00	49.7%	1.42	3.00	47.3%	4.8%
Dibenz(a,h)anthracene	0.99	3.00	33.0%	1.17	3.00	39.0%	16.7%
Total Benzofluoranthenes	6.20	9.00	68.9%	5.85	9.00	65.0%	5.8%

Reported in µg/L (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	77.0%	73.3%
d14-Dibenzo(a,h)anthracene	48.3%	51.0%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-38-2**	**Arsenic**	0.05	**0.07**	
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.071**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
3010A	02/06/13	6010C	02/07/13	7439-92-1	Lead	0.02	0.02	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
DUPLICATE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010C	0.07	0.07	0.0%	+/- 0.05	L
Barium	6010C	0.071	0.074	4.1%	+/- 20%	
Cadmium	6010C	0.002 U	0.002 U	0.0%	+/- 0.002	L
Chromium	6010C	0.005 U	0.005 U	0.0%	+/- 0.005	L
Lead	6010C	0.02 U	0.02 U	0.0%	+/- 0.02	L
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Selenium	6010C	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010C	0.003 U	0.003 U	0.0%	+/- 0.003	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
MATRIX SPIKE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010C	0.07	2.06	2.00	99.5%	
Barium	6010C	0.071	2.15	2.00	104%	
Cadmium	6010C	0.002 U	0.504	0.500	101%	
Chromium	6010C	0.005 U	0.502	0.500	100%	
Lead	6010C	0.02 U	1.94	2.00	97.0%	
Mercury	7470A	0.0001 U	0.0010	0.0010	100%	
Selenium	6010C	0.05 U	1.93	2.00	96.5%	
Silver	6010C	0.003 U	0.512	0.500	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW16-20130205
SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.277**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
3010A	02/06/13	6010C	02/07/13	7439-92-1	Lead	0.02	0.02	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-38-2**	**Arsenic**	0.05	**0.06**	
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.062**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
3010A	02/06/13	6010C	02/07/13	7439-92-1	Lead	0.02	0.02	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW11-20130205
SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.034**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
3010A	02/06/13	6010C	02/07/13	7439-92-1	Lead	0.02	0.02	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WC64MB
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	7440-38-2	Arsenic	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-39-3	Barium	0.003	0.003	U
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
3010A	02/06/13	6010C	02/07/13	7439-92-1	Lead	0.02	0.02	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WC64LCS
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/08/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	6010C	1.98	2.00	99.0%	
Barium	6010C	2.08	2.00	104%	
Cadmium	6010C	0.498	0.500	99.6%	
Chromium	6010C	0.504	0.500	101%	
Lead	6010C	1.97	2.00	98.5%	
Mercury	7470A	0.0020	0.0020	100%	
Selenium	6010C	1.92	2.00	96.0%	
Silver	6010C	0.525	0.500	105%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
SAMPLE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.071**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW16-20130205
SAMPLE

Lab Sample ID: WC64B
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.277**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WC64C
LIMS ID: 13-2577
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.062**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW11-20130205
SAMPLE

Lab Sample ID: WC64D
LIMS ID: 13-2578
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	**7440-39-3**	**Barium**	0.003	**0.034**	
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WC64MB
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
3010A	02/06/13	6010C	02/07/13	7440-39-3	Barium	0.003	0.003	U
3010A	02/06/13	6010C	02/07/13	7440-43-9	Cadmium	0.002	0.002	U
3010A	02/06/13	6010C	02/07/13	7440-47-3	Chromium	0.005	0.005	U
7470A	02/06/13	7470A	02/07/13	7439-97-6	Mercury	0.0001	0.0001	U
3010A	02/06/13	6010C	02/07/13	7782-49-2	Selenium	0.05	0.05	U
3010A	02/06/13	6010C	02/07/13	7440-22-4	Silver	0.003	0.003	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WC64LCS
LIMS ID: 13-2576
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Barium	6010C	2.08	2.00	104%	
Cadmium	6010C	0.498	0.500	99.6%	
Chromium	6010C	0.504	0.500	101%	
Mercury	7470A	0.0020	0.0020	100%	
Selenium	6010C	1.92	2.00	96.0%	
Silver	6010C	0.525	0.500	105%	

Reported in mg/L

N-Control limit not met
Control Limits: 80-120%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
DUPLICATE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Barium	6010C	0.071	0.074	4.1%	+/- 20%	
Cadmium	6010C	0.002 U	0.002 U	0.0%	+/- 0.002	L
Chromium	6010C	0.005 U	0.005 U	0.0%	+/- 0.005	L
Mercury	7470A	0.0001 U	0.0001 U	0.0%	+/- 0.0001	L
Selenium	6010C	0.05 U	0.05 U	0.0%	+/- 0.05	L
Silver	6010C	0.003 U	0.003 U	0.0%	+/- 0.003	L

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW14-20130205
MATRIX SPIKE

Lab Sample ID: WC64A
LIMS ID: 13-2575
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WC64-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Barium	6010C	0.071	2.15	2.00	104%	
Cadmium	6010C	0.002 U	0.504	0.500	101%	
Chromium	6010C	0.005 U	0.502	0.500	100%	
Mercury	7470A	0.0001 U	0.0010	0.0010	100%	
Selenium	6010C	0.05 U	1.93	2.00	96.5%	
Silver	6010C	0.003 U	0.512	0.500	102%	

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: M14-20130205
SAMPLE

Lab Sample ID: WD27A
LIMS ID: 13-2887
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**48.0**	
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: M16-20130205
SAMPLE

Lab Sample ID: WD27B
LIMS ID: 13-2888
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**8.6**	
200.8	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**3.7**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WD27C
LIMS ID: 13-2889
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**36.5**	
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: MW11-20130205
SAMPLE

Lab Sample ID: WD27D
LIMS ID: 13-2890
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**3.0**	
200.8	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**0.4**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD27MB
LIMS ID: 13-2887
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/11/13	200.8	02/12/13	7440-38-2	Arsenic	0.2	0.2	U
200.8	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD27LCS
LIMS ID: 13-2887
Matrix: Water
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD27-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	29.0	25.0	116%	
Lead	200.8	27.7	25.0	111%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Inc. #WD25

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 14, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WD25

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted eight soil samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Several samples have been placed on hold pending further instructions.

The samples were analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC.

The VOCs CCAL is out of control high for all associated FORM III "Q" flagged analytes. All associated samples that contain analyte have been flagged with a "Q" qualifier.

The VOCs LCSD is out of control high for chloroethane. All other spike recoveries are in control and no further corrective action was taken.

There were no other anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WD25

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WD25	Turn-around Requested: 5-days
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: CGC

Page: 1 of 1

Date: 2-8-'13 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs (8260C)	Carcinogenic PAHs (8270C)	Pesticides + Herbicides (8081)			Notes/Comments
P10-04	2-8-13	0745	Soil	6									
P10-08	↓	0750	↓	↓									
P10-12	↓	0755	↓	↓	X	X	X	X	X	X			
P10-16	↓	0800	↓	↓	X	X	X	X	X	X			
P11-04	↓	0840	↓	↓									
P11-08	↓	0845	↓	↓									
P11-10	↓	0850	↓	↓	X	X	X	X	X	X			
P11-15	↓	0855	↓	↓									

Comments/Special Instructions
Send copy of lab report to Chris Cass of SoundEarth
CCass@soundearthinc.com

Relinquished by	Received by	Relinquished by	Received by
(Signature)	(Signature)	(Signature)	(Signature)
Printed Name: Chris Cass	Printed Name: Jennifer Millsap	Printed Name	Printed Name
Company: SoundEarth Strategies, Inc	Company: ARI	Company	Company
Date & Time: 2/8/2013 @1140	Date & Time: 2/8/13 1140	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Sound Earth
Project Name: Bryant Building
COC No(s): _____ (NA)
Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
Assigned ARI Job No: WD25
Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	2.6	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: JM Date: 2/8/13 Time: 1140

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other: _____		
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI: (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

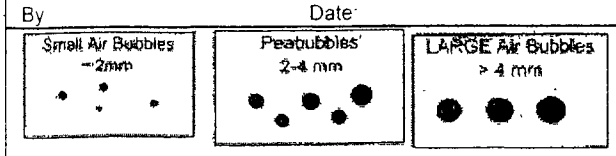
Samples Logged by: AV Date: 2/8/13 Time: 1548

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By _____ Date: _____



Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WD25
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P10-12	WD25A	13-2879	Soil	02/08/13 07:55	02/08/13 11:40
2.	P10-16	WD25B	13-2880	Soil	02/08/13 08:00	02/08/13 11:40
3.	P11-10	WD25C	13-2881	Soil	02/08/13 08:50	02/08/13 11:40
4.	P10-04	WD25D	13-2882	Soil	02/08/13 07:45	02/08/13 11:40
5.	P10-08	WD25E	13-2883	Soil	02/08/13 07:50	02/08/13 11:40
6.	P11-04	WD25F	13-2884	Soil	02/08/13 08:40	02/08/13 11:40
7.	P11-08	WD25G	13-2885	Soil	02/08/13 08:45	02/08/13 11:40
8.	P11-15	WD25H	13-2886	Soil	02/08/13 08:55	02/08/13 11:40

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Temperature Compliance Form

WDD5

Cooler#: 1	Temperature(°C): 6.6	
Sample ID	**Bottle Count**	**Bottle Type**
All Samples received above 6°C.		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by: AV Date: 2/8/13 Time: 1548

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-12**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD25A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 16:28

Sample Amount: 4.45 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 7.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.1	< 1.1	U
74-83-9	Bromomethane	1.1	< 1.1	U
75-01-4	Vinyl Chloride	1.1	< 1.1	U
75-00-3	Chloroethane	1.1	< 1.1	U
75-09-2	Methylene Chloride	2.2	< 2.2	U
67-64-1	**Acetone**	**5.6**	**20**	
75-15-0	**Carbon Disulfide**	**1.1**	**1.9**	
75-35-4	1,1-Dichloroethene	1.1	< 1.1	U
75-34-3	1,1-Dichloroethane	1.1	< 1.1	U
156-60-5	trans-1,2-Dichloroethene	1.1	< 1.1	U
156-59-2	cis-1,2-Dichloroethene	1.1	< 1.1	U
67-66-3	Chloroform	1.1	< 1.1	U
107-06-2	1,2-Dichloroethane	1.1	< 1.1	U
78-93-3	2-Butanone	5.6	< 5.6	U
71-55-6	1,1,1-Trichloroethane	1.1	< 1.1	U
56-23-5	Carbon Tetrachloride	1.1	< 1.1	U
108-05-4	Vinyl Acetate	5.6	< 5.6	U
75-27-4	Bromodichloromethane	1.1	< 1.1	U
78-87-5	1,2-Dichloropropane	1.1	< 1.1	U
10061-01-5	cis-1,3-Dichloropropene	1.1	< 1.1	U
79-01-6	Trichloroethene	1.1	< 1.1	U
124-48-1	Dibromochloromethane	1.1	< 1.1	U
79-00-5	1,1,2-Trichloroethane	1.1	< 1.1	U
71-43-2	**Benzene**	**1.1**	**4.0**	
10061-02-6	trans-1,3-Dichloropropene	1.1	< 1.1	U
110-75-8	2-Chloroethylvinylether	5.6	< 5.6	U
75-25-2	Bromoform	1.1	< 1.1	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.6	< 5.6	U
591-78-6	2-Hexanone	5.6	< 5.6	U
127-18-4	Tetrachloroethene	1.1	< 1.1	U
79-34-5	1,1,2,2-Tetrachloroethane	1.1	< 1.1	U
108-88-3	**Toluene**	**1.1**	**5.0**	
108-90-7	Chlorobenzene	1.1	< 1.1	U
100-41-4	Ethylbenzene	1.1	< 1.1	U
100-42-5	Styrene	1.1	< 1.1	U
75-69-4	Trichlorofluoromethane	1.1	< 1.1	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.2	< 2.2	U
179601-23-1	**m,p-Xylene**	**1.1**	**3.2**	
95-47-6	**o-Xylene**	**1.1**	**1.4**	
95-50-1	1,2-Dichlorobenzene	1.1	< 1.1	U
541-73-1	1,3-Dichlorobenzene	1.1	< 1.1	U
106-46-7	1,4-Dichlorobenzene	1.1	< 1.1	U
107-02-8	Acrolein	56	< 56	U
74-88-4	Iodomethane	1.1	< 1.1	U
74-96-4	Bromoethane	2.2	< 2.2	U
107-13-1	Acrylonitrile	5.6	< 5.6	U
563-58-6	1,1-Dichloropropene	1.1	< 1.1	U
74-95-3	Dibromomethane	1.1	< 1.1	U
630-20-6	1,1,1,2-Tetrachloroethane	1.1	< 1.1	U
96-12-8	1,2-Dibromo-3-chloropropane	5.6	< 5.6	U
96-18-4	1,2,3-Trichloropropane	2.2	< 2.2	U
110-57-6	trans-1,4-Dichloro-2-butene	5.6	< 5.6	U
108-67-8	1,3,5-Trimethylbenzene	1.1	< 1.1	U

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-12**
 SAMPLE

Lab Sample ID: WD25A
LIMS ID: 13-2879
Matrix: Soil
Date Analyzed: 02/11/13 16:28

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	**1,2,4-Trimethylbenzene**	**1.1**	**25**	
87-68-3	Hexachlorobutadiene	5.6	< 5.6	U
106-93-4	1,2-Dibromoethane	1.1	< 1.1	U
74-97-5	Bromochloromethane	1.1	< 1.1	U
594-20-7	2,2-Dichloropropane	1.1	< 1.1	U
142-28-9	1,3-Dichloropropane	1.1	< 1.1	U
98-82-8	Isopropylbenzene	1.1	< 1.1	U
103-65-1	**n-Propylbenzene**	**1.1**	**5.5**	
108-86-1	Bromobenzene	1.1	< 1.1	U
95-49-8	2-Chlorotoluene	1.1	< 1.1	U
106-43-4	4-Chlorotoluene	1.1	< 1.1	U
98-06-6	tert-Butylbenzene	1.1	< 1.1	U
135-98-8	**sec-Butylbenzene**	**1.1**	**2.7**	
99-87-6	**4-Isopropyltoluene**	**1.1**	**1.6**	
104-51-8	**n-Butylbenzene**	**1.1**	**6.5**	
120-82-1	1,2,4-Trichlorobenzene	5.6	< 5.6	U
91-20-3	Naphthalene	5.6	< 5.6	U
87-61-6	1,2,3-Trichlorobenzene	5.6	< 5.6	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	112%
d8-Toluene	112%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	101%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-16**
 SAMPLE

Lab Sample ID: WD25B
LIMS ID: 13-2880
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 16:52

Sample Amount: 5.22 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 10.7%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	**Methylene Chloride**	**1.9**	**2.1**	
67-64-1	Acetone	4.8	< 4.8	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	< 4.8	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	**Benzene**	**1.0**	**1.1**	
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.8	< 4.8	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	48	< 48	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P10-16**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD25B
LIMS ID: 13-2880
Matrix: Soil
Date Analyzed: 02/11/13 16:52

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.8	< 4.8	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.8	< 4.8	U
91-20-3	Naphthalene	4.8	< 4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	< 4.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	113%
d8-Toluene	102%
Bromofluorobenzene	104%
d4-1,2-Dichlorobenzene	103%

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P11-10**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD25C
LIMS ID: 13-2881
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 17:16

Sample Amount: 5.26 g-dry-wt
Purge Volume: 5.0 mL
Moisture: 9.5%

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	1.9	< 1.9	U
67-64-1	**Acetone**	**4.8**	**6.5**	
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	4.8	< 4.8	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	4.8	< 4.8	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	4.8	< 4.8	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	4.8	< 4.8	U
591-78-6	2-Hexanone	4.8	< 4.8	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.9	< 1.9	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	48	< 48	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	1.9	< 1.9	U
107-13-1	Acrylonitrile	4.8	< 4.8	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	4.8	< 4.8	U
96-18-4	1,2,3-Trichloropropane	1.9	< 1.9	U
110-57-6	trans-1,4-Dichloro-2-butene	4.8	< 4.8	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: P11-10**
 SAMPLE

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: WD25C
LIMS ID: 13-2881
Matrix: Soil
Date Analyzed: 02/11/13 17:16

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	4.8	< 4.8	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	4.8	< 4.8	U
91-20-3	Naphthalene	4.8	< 4.8	U
87-61-6	1,2,3-Trichlorobenzene	4.8	< 4.8	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	114%
d8-Toluene	102%
Bromofluorobenzene	102%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: MB-021113A**

METHOD BLANK

Lab Sample ID: MB-021113A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst: NT5/PAB
Date Analyzed: 02/11/13 11:29

Sample Amount: 5.00 g-dry-wt
Purge Volume: 5.0 mL
Moisture: NA

CAS Number	Analyte	RL	Result	Q
74-87-3	Chloromethane	1.0	< 1.0	U
74-83-9	Bromomethane	1.0	< 1.0	U
75-01-4	Vinyl Chloride	1.0	< 1.0	U
75-00-3	Chloroethane	1.0	< 1.0	U
75-09-2	Methylene Chloride	2.0	< 2.0	U
67-64-1	Acetone	5.0	< 5.0	U
75-15-0	Carbon Disulfide	1.0	< 1.0	U
75-35-4	1,1-Dichloroethene	1.0	< 1.0	U
75-34-3	1,1-Dichloroethane	1.0	< 1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	< 1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	< 1.0	U
67-66-3	Chloroform	1.0	< 1.0	U
107-06-2	1,2-Dichloroethane	1.0	< 1.0	U
78-93-3	2-Butanone	5.0	< 5.0	U
71-55-6	1,1,1-Trichloroethane	1.0	< 1.0	U
56-23-5	Carbon Tetrachloride	1.0	< 1.0	U
108-05-4	Vinyl Acetate	5.0	< 5.0	U
75-27-4	Bromodichloromethane	1.0	< 1.0	U
78-87-5	1,2-Dichloropropane	1.0	< 1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	< 1.0	U
79-01-6	Trichloroethene	1.0	< 1.0	U
124-48-1	Dibromochloromethane	1.0	< 1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	< 1.0	U
71-43-2	Benzene	1.0	< 1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	< 1.0	U
110-75-8	2-Chloroethylvinylether	5.0	< 5.0	U
75-25-2	Bromoform	1.0	< 1.0	U
108-10-1	4-Methyl-2-Pentanone (MIBK)	5.0	< 5.0	U
591-78-6	2-Hexanone	5.0	< 5.0	U
127-18-4	Tetrachloroethene	1.0	< 1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	< 1.0	U
108-88-3	Toluene	1.0	< 1.0	U
108-90-7	Chlorobenzene	1.0	< 1.0	U
100-41-4	Ethylbenzene	1.0	< 1.0	U
100-42-5	Styrene	1.0	< 1.0	U
75-69-4	Trichlorofluoromethane	1.0	< 1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	< 2.0	U
179601-23-1	m,p-Xylene	1.0	< 1.0	U
95-47-6	o-Xylene	1.0	< 1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	< 1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	< 1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	< 1.0	U
107-02-8	Acrolein	50	< 50	U
74-88-4	Iodomethane	1.0	< 1.0	U
74-96-4	Bromoethane	2.0	< 2.0	U
107-13-1	Acrylonitrile	5.0	< 5.0	U
563-58-6	1,1-Dichloropropene	1.0	< 1.0	U
74-95-3	Dibromomethane	1.0	< 1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1.0	< 1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	< 5.0	U
96-18-4	1,2,3-Trichloropropane	2.0	< 2.0	U
110-57-6	trans-1,4-Dichloro-2-butene	5.0	< 5.0	U
108-67-8	1,3,5-Trimethylbenzene	1.0	< 1.0	U

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C

Sample ID: MB-021113A
METHOD BLANK

ANALYTICAL RESOURCES INCORPORATED

Lab Sample ID: MB-021113A
LIMS ID: 13-2879
Matrix: Soil
Date Analyzed: 02/11/13 11:29

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

CAS Number	Analyte	RL	Result	Q
95-63-6	1,2,4-Trimethylbenzene	1.0	< 1.0	U
87-68-3	Hexachlorobutadiene	5.0	< 5.0	U
106-93-4	1,2-Dibromoethane	1.0	< 1.0	U
74-97-5	Bromochloromethane	1.0	< 1.0	U
594-20-7	2,2-Dichloropropane	1.0	< 1.0	U
142-28-9	1,3-Dichloropropane	1.0	< 1.0	U
98-82-8	Isopropylbenzene	1.0	< 1.0	U
103-65-1	n-Propylbenzene	1.0	< 1.0	U
108-86-1	Bromobenzene	1.0	< 1.0	U
95-49-8	2-Chlorotoluene	1.0	< 1.0	U
106-43-4	4-Chlorotoluene	1.0	< 1.0	U
98-06-6	tert-Butylbenzene	1.0	< 1.0	U
135-98-8	sec-Butylbenzene	1.0	< 1.0	U
99-87-6	4-Isopropyltoluene	1.0	< 1.0	U
104-51-8	n-Butylbenzene	1.0	< 1.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	< 5.0	U
91-20-3	Naphthalene	5.0	< 5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	< 5.0	U

Reported in µg/kg (ppb)

Volatile Surrogate Recovery

d4-1,2-Dichloroethane	106%
d8-Toluene	102%
Bromofluorobenzene	98.4%
d4-1,2-Dichlorobenzene	102%

ANALYTICAL RESOURCES INCORPORATED

VOA SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

ARI ID	Client ID	Level	DCE	TOL	BFB	DCB	TOT OUT
MB-021113A	Method Blank	Low	106%	102%	98.4%	102%	0
LCS-021113A	Lab Control	Low	104%	101%	101%	99.1%	0
LCSD-021113A	Lab Control Dup	Low	105%	101%	102%	100%	0
WD25A	P10-12	Low	112%	112%	104%	101%	0
WD25B	P10-16	Low	113%	102%	104%	103%	0
WD25C	P11-10	Low	114%	102%	102%	102%	0

	LCS/MB LIMITS		QC LIMITS	
SW8260C	Low	Med	Low	Med
(DCE) = d4-1,2-Dichloroethane	80-122	76-120	80-149	69-120
(TOL) = d8-Toluene	80-120	80-120	77-120	80-120
(BFB) = Bromofluorobenzene	80-120	80-120	80-120	76-128
(DCB) = d4-1,2-Dichlorobenzene	80-120	80-120	80-120	80-120

Log Number Range: 13-2879 to 13-2881

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Instrument/Analyst LCS: NT5/PAB
LCSD: NT5/PAB
Date Analyzed LCS: 02/11/13 10:41
LCSD: 02/11/13 11:05

Sample Amount LCS: 5.00 g-dry-wt
LCSD: 5.00 g-dry-wt
Purge Volume LCS: 5.0 mL
LCSD: 5.0 mL
Moisture: NA

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Chloromethane	49.8	50.0	99.6%	50.8	50.0	102%	2.0%
Bromomethane	39.4	50.0	78.8%	42.7	50.0	85.4%	8.0%
Vinyl Chloride	52.5	50.0	105%	54.6	50.0	109%	3.9%
Chloroethane	62.1	50.0	124%	77.5	50.0	155%	22.1%
Methylene Chloride	48.7	50.0	97.4%	50.0	50.0	100%	2.6%
Acetone	257	250	103%	266	250	106%	3.4%
Carbon Disulfide	43.7	50.0	87.4%	47.0	50.0	94.0%	7.3%
1,1-Dichloroethene	42.4	50.0	84.8%	45.5	50.0	91.0%	7.1%
1,1-Dichloroethane	47.5	50.0	95.0%	50.5	50.0	101%	6.1%
trans-1,2-Dichloroethene	47.0	50.0	94.0%	49.5	50.0	99.0%	5.2%
cis-1,2-Dichloroethene	44.1	50.0	88.2%	49.4	50.0	98.8%	11.3%
Chloroform	48.0	50.0	96.0%	51.1	50.0	102%	6.3%
1,2-Dichloroethane	46.0	50.0	92.0%	48.6	50.0	97.2%	5.5%
2-Butanone	255	250	102%	268	250	107%	5.0%
1,1,1-Trichloroethane	48.3	50.0	96.6%	51.7	50.0	103%	6.8%
Carbon Tetrachloride	47.4	50.0	94.8%	51.2	50.0	102%	7.7%
Vinyl Acetate	48.3	50.0	96.6%	51.0	50.0	102%	5.4%
Bromodichloromethane	46.1	50.0	92.2%	48.8	50.0	97.6%	5.7%
1,2-Dichloropropane	45.7	50.0	91.4%	49.5	50.0	99.0%	8.0%
cis-1,3-Dichloropropene	47.2	50.0	94.4%	50.4	50.0	101%	6.6%
Trichloroethene	47.3	50.0	94.6%	50.7	50.0	101%	6.9%
Dibromochloromethane	46.7	50.0	93.4%	49.0	50.0	98.0%	4.8%
1,1,2-Trichloroethane	46.2	50.0	92.4%	48.8	50.0	97.6%	5.5%
Benzene	47.8	50.0	95.6%	50.9	50.0	102%	6.3%
trans-1,3-Dichloropropene	47.0	50.0	94.0%	50.4	50.0	101%	7.0%
2-Chloroethylvinylether	47.4	50.0	94.8%	50.7	50.0	101%	6.7%
Bromoform	45.0	50.0	90.0%	46.6	50.0	93.2%	3.5%
4-Methyl-2-Pentanone (MIBK)	240	250	96.0%	258	250	103%	7.2%
2-Hexanone	256	250	102%	268	250	107%	4.6%
Tetrachloroethene	47.9	50.0	95.8%	50.4	50.0	101%	5.1%
1,1,2,2-Tetrachloroethane	45.5	50.0	91.0%	47.7	50.0	95.4%	4.7%
Toluene	46.3	50.0	92.6%	49.7	50.0	99.4%	7.1%
Chlorobenzene	46.7	50.0	93.4%	49.5	50.0	99.0%	5.8%
Ethylbenzene	50.3	50.0	101%	53.1	50.0	106%	5.4%
Styrene	49.9	50.0	99.8%	52.1	50.0	104%	4.3%
Trichlorofluoromethane	62.1	50.0	124%	58.8	50.0	118%	5.5%
1,1,2-Trichloro-1,2,2-trifluoroetha	44.4	50.0	88.8%	48.0	50.0	96.0%	7.8%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
Volatiles by Purge & Trap GC/MS-Method SW8260C **Sample ID: LCS-021113A**

LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113A
LIMS ID: 13-2879
Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

Analyte	LCS		Spike Added-LCS	LCS Recovery	LCSD		Spike Added-LCSD	LCSD Recovery	RPD
m,p-Xylene	98.4		100	98.4%	105		100	105%	6.5%
o-Xylene	48.4		50.0	96.8%	51.1		50.0	102%	5.4%
1,2-Dichlorobenzene	46.4		50.0	92.8%	48.2		50.0	96.4%	3.8%
1,3-Dichlorobenzene	47.7		50.0	95.4%	49.3		50.0	98.6%	3.3%
1,4-Dichlorobenzene	47.2		50.0	94.4%	49.2		50.0	98.4%	4.1%
Acrolein	230		250	92.0%	239		250	95.6%	3.8%
Iodomethane	54.3	Q	50.0	109%	55.2	Q	50.0	110%	1.6%
Bromoethane	43.3		50.0	86.6%	46.7		50.0	93.4%	7.6%
Acrylonitrile	47.5		50.0	95.0%	48.8		50.0	97.6%	2.7%
1,1-Dichloropropene	47.9		50.0	95.8%	51.8		50.0	104%	7.8%
Dibromomethane	45.7		50.0	91.4%	48.5		50.0	97.0%	5.9%
1,1,1,2-Tetrachloroethane	46.2		50.0	92.4%	47.9		50.0	95.8%	3.6%
1,2-Dibromo-3-chloropropane	44.9		50.0	89.8%	46.5		50.0	93.0%	3.5%
1,2,3-Trichloropropane	45.3		50.0	90.6%	46.7		50.0	93.4%	3.0%
trans-1,4-Dichloro-2-butene	51.4		50.0	103%	52.1		50.0	104%	1.4%
1,3,5-Trimethylbenzene	49.9		50.0	99.8%	52.4		50.0	105%	4.9%
1,2,4-Trimethylbenzene	50.5		50.0	101%	52.4		50.0	105%	3.7%
Hexachlorobutadiene	48.0		50.0	96.0%	48.8		50.0	97.6%	1.7%
1,2-Dibromoethane	45.9		50.0	91.8%	48.5		50.0	97.0%	5.5%
Bromochloromethane	46.4		50.0	92.8%	48.2		50.0	96.4%	3.8%
2,2-Dichloropropane	41.5		50.0	83.0%	44.5		50.0	89.0%	7.0%
1,3-Dichloropropane	47.4		50.0	94.8%	49.2		50.0	98.4%	3.7%
Isopropylbenzene	50.2		50.0	100%	52.1		50.0	104%	3.7%
n-Propylbenzene	51.4		50.0	103%	53.5		50.0	107%	4.0%
Bromobenzene	44.9		50.0	89.8%	45.9		50.0	91.8%	2.2%
2-Chlorotoluene	48.3		50.0	96.6%	49.8		50.0	99.6%	3.1%
4-Chlorotoluene	49.4		50.0	98.8%	50.9		50.0	102%	3.0%
tert-Butylbenzene	48.9		50.0	97.8%	51.4		50.0	103%	5.0%
sec-Butylbenzene	51.6		50.0	103%	54.1		50.0	108%	4.7%
4-Isopropyltoluene	52.3		50.0	105%	54.2		50.0	108%	3.6%
n-Butylbenzene	53.5		50.0	107%	55.1		50.0	110%	2.9%
1,2,4-Trichlorobenzene	48.1		50.0	96.2%	49.2		50.0	98.4%	2.3%
Naphthalene	47.8		50.0	95.6%	48.5		50.0	97.0%	1.5%
1,2,3-Trichlorobenzene	45.8		50.0	91.6%	46.8		50.0	93.6%	2.2%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

Volatile Surrogate Recovery

	LCS	LCSD
d4-1,2-Dichloroethane	104%	105%
d8-Toluene	101%	101%
Bromofluorobenzene	101%	102%
d4-1,2-Dichlorobenzene	99.1%	100%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P10-12
SAMPLE

Lab Sample ID: WD25A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/14/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 15:56
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.33 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 7.5%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	71.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P10-16
SAMPLE

Lab Sample ID: WD25B
LIMS ID: 13-2880
Matrix: Soil
Data Release Authorized: MW
Reported: 02/14/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 16:33
Instrument/Analyst: ECD1/YZ

Sample Amount: 8.93 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	7.0	< 7.0 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery

2,4,6-Tribromophenol	75.6%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: P11-10
SAMPLE

Lab Sample ID: WD25C
LIMS ID: 13-2881
Matrix: Soil
Data Release Authorized: MW
Reported: 02/14/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 17:09
Instrument/Analyst: ECD1/YZ

Sample Amount: 9.27 g-dry-wt
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: 9.5%

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.7	< 6.7 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	77.2%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041
Extraction Method: SW3550C

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/14/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/13/13 06:53
Instrument/Analyst: ECD1/YZ

Sample Amount: 10.0 g
Final Extract Volume: 25 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
87-86-5	Pentachlorophenol	6.2	< 6.2 U

Reported in µg/kg (ppb)

Chlorophenol Surrogate Recovery	
2,4,6-Tribromophenol	74.8%

ANALYTICAL RESOURCES INCORPORATED

SW8041 CHLOROPHENOLICS SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	TBP	TOT OUT
MB-020913	74.8%	0
LCS-020913	89.4%	0
P10-12	71.2%	0
P10-16	75.6%	0
P11-10	77.2%	0

	LCS/MB LIMITS	QC LIMITS
(TBP) = 2,4,6-Tribromophenol	(39-99)	(10-129)

Prep Method: SW3550B
Log Number Range: 13-2879 to 13-2881

FORM-II SW8041

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PCP by GC/ECD Method SW8041

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized: MW
Reported: 02/14/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/13/13 07:30
LCSD: 02/13/13 08:06
Instrument/Analyst LCS: ECD1/YZ
LCSD: ECD1/YZ

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 25 mL
LCSD: 25 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Pentachlorophenol	55.1	62.5	88.2%	56.5	62.5	90.4%	2.5%

Chlorophenols Surrogate Recovery

	LCS	LCSD
2,4,6-Tribromophenol	89.4%	83.0%

Results reported in µg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG
Matrix: Soil

Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

ARI ID	Client ID	Analysis Date	Basis	Range	Result
MB-021113	Method Blank	02/11/13	Dry	Gasoline	< 5.0 U
13-2879		PID1		HC ID	---
				Trifluorotoluene	89.6%
				Bromobenzene	90.8%
WD25A	P10-12	02/11/13	Dry	**Gasoline**	**430**
13-2879		PID1		HC ID	GRO
				Trifluorotoluene	88.4%
				Bromobenzene	81.8%
MB-021213	Method Blank	02/12/13	Dry	Gasoline	< 5.0 U
13-2880		PID1		HC ID	---
				Trifluorotoluene	89.2%
				Bromobenzene	91.7%
WD25B	P10-16	02/12/13	Dry	Gasoline	< 5.4 U
13-2880		PID1		HC ID	---
				Trifluorotoluene	89.2%
				Bromobenzene	90.0%
WD25C	P11-10	02/11/13	Dry	Gasoline	< 5.2 U
13-2881		PID1		HC ID	---
				Trifluorotoluene	86.2%
				Bromobenzene	90.6%

Gasoline values reported in mg/kg (ppm)

Quantitation on total peaks in the gasoline range from Toluene to Naphthalene.

GAS: Indicates the presence of gasoline or weathered gasoline.
GRO: Positive result that does not match an identifiable gasoline pattern.

Results corrected for soil moisture content per Section 11.10.5 of EPA Method 8000C.

ANALYTICAL RESOURCES INCORPORATED

TPHG SOIL SURROGATE RECOVERY SUMMARY

ARI Job: WD25
Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108

Client ID	BFB	TFT	BBZ	TOT OUT
MB-021113	NA	89.6%	90.8%	0
LCS-021113	NA	93.8%	90.4%	0
LCSD-021113	NA	88.9%	85.9%	0
P10-12	NA	88.4%	81.8%	0
MB-021213	NA	89.2%	91.7%	0
LCS-021213	NA	90.8%	89.8%	0
LCSD-021213	NA	89.6%	89.1%	0
P10-16	NA	89.2%	90.0%	0
P11-10	NA	86.2%	90.6%	0

	LCS/MB LIMITS	QC LIMITS
(TFT) = Trifluorotoluene	(80-120)	(65-128)
(BBZ) = Bromobenzene	(80-120)	(52-149)

Log Number Range: 13-2879 to 13-2881

FORM II TPHG

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

ANALYTICAL RESOURCES INCORPORATED

Sample ID: LCS-021113
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021113
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/11/13 10:31
LCSD: 02/11/13 11:01
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	49.0	50.0	98.0%	47.9	50.0	95.8%	2.3%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	93.8%	88.9%
Bromobenzene	90.4%	85.9%

ORGANICS ANALYSIS DATA SHEET
TPHG by Method NWTPHG

ANALYTICAL RESOURCES INCORPORATED

Sample ID: LCS-021213
LAB CONTROL SAMPLE

Lab Sample ID: LCS-021213
LIMS ID: 13-2880
Matrix: Soil
Data Release Authorized:
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Analyzed LCS: 02/12/13 10:52
LCSD: 02/12/13 11:21
Instrument/Analyst LCS: PID1/PKC
LCSD: PID1/PKC

Purge Volume: 5.0 mL

Sample Amount LCS: 100 mg-dry-wt
LCSD: 100 mg-dry-wt

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Gasoline Range Hydrocarbons	48.6	50.0	97.2%	46.6	50.0	93.2%	4.2%

Reported in mg/kg (ppm)

RPD calculated using sample concentrations per SW846.

TPHG Surrogate Recovery

	LCS	LCSD
Trifluorotoluene	90.8%	89.6%
Bromobenzene	89.8%	89.1%

ORGANICS ANALYSIS DATA SHEET
TOTAL DIESEL RANGE HYDROCARBONS
NWTPHD by GC/FID-Silica and Acid Cleaned
Extraction Method: SW3546

ANALYTICAL RESOURCES INCORPORATED

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

Matrix: Soil
Data Release Authorized: MW
Reported: 02/12/13

ARI ID	Sample ID	Extraction Date	Analysis Date	EFV DF	Range/Surrogate	RL	Result
MB-020913	Method Blank	02/09/13	02/11/13	1.00	Diesel Range	5.0	< 5.0 U
13-2879	HC ID: ---		FID4A	1.0	Motor Oil Range	10	< 10 U
					o-Terphenyl		103%
WD25A	P10-12	02/09/13	02/11/13	1.00	**Diesel Range**	**5.3**	**28**
13-2879	HC ID: **DIESEL/MOTOR OIL**		FID4A	1.0	**Motor Oil Range**	**11**	**18**
					o-Terphenyl		90.2%
WD25B	P10-16	02/09/13	02/11/13	1.00	Diesel Range	5.6	< 5.6 U
13-2880	HC ID: ---		FID4A	1.0	Motor Oil Range	11	< 11 U
					o-Terphenyl		99.5%
WD25C	P11-10	02/09/13	02/11/13	1.00	Diesel Range	5.5	< 5.5 U
13-2881	HC ID: ---		FID4A	1.0	Motor Oil Range	11	< 11 U
					o-Terphenyl		95.5%

Reported in mg/kg (ppm)

EFV-Effective Final Volume in mL.
DL-Dilution of extract prior to analysis.
RL-Reporting limit.

Diesel range quantitation on total peaks in the range from C12 to C24.
Motor Oil range quantitation on total peaks in the range from C24 to C38.
HC ID: DRO/RRO indicate results of organics or additional hydrocarbons in ranges are not identifiable.

ANALYTICAL RESOURCES INCORPORATED

CLEANED TPHD SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	OTER	TOT OUT
MB-020913	103%	0
LCS-020913	90.6%	0
LCSD-020913	91.9%	0
P10-12	90.2%	0
P10-16	99.5%	0
P11-10	95.5%	0

	LCS/MB LIMITS	QC LIMITS
(OTER) = o-Terphenyl	(50-150)	(50-150)

Prep Method: SW3546
Log Number Range: 13-2879 to 13-2881

FORM-II TPHD

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
NWTPHD by GC/FID-Silica and Acid Cleaned

Sample ID: LCS-020913
LCS/LCSD

Lab Sample ID: LCS-020913
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized: MW
Reported: 02/12/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted LCS/LCSD: 02/09/13

Date Analyzed LCS: 02/11/13 09:15
LCSD: 02/11/13 09:35
Instrument/Analyst LCS: FID/JLW
LCSD: FID/JLW

Sample Amount LCS: 10.0 g
LCSD: 10.0 g
Final Extract Volume LCS: 1.0 mL
LCSD: 1.0 mL
Dilution Factor LCS: 1.0
LCSD: 1.0

Range	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Diesel	112	150	74.7%	111	150	74.0%	0.9%

TPHD Surrogate Recovery

	LCS	LCSD
o-Terphenyl	90.6%	91.9%

Results reported in mg/kg
RPD calculated using sample concentrations per SW846.

ANALYTICAL RESOURCES INCORPORATED

TOTAL DIESEL RANGE HYDROCARBONS-EXTRACTION REPORT

ARI Job: WD25
Project: Bryant Building
WP201108

Matrix: Soil
Date Received: 02/08/13

ARI ID	Client ID	Client Amt	Final Vol	Basis	Prep Date
13-2879-020913MB1	Method Blank	10.0 g	1.00 mL	-	02/09/13
13-2879-020913LCS1	Lab Control	10.0 g	1.00 mL	-	02/09/13
13-2879-020913LCSD1	Lab Control Dup	10.0 g	1.00 mL	-	02/09/13
13-2879-WD25A	P10-12	9.38 g	1.00 mL	D	02/09/13
13-2880-WD25B	P10-16	8.98 g	1.00 mL	D	02/09/13
13-2881-WD25C	P11-10	9.08 g	1.00 mL	D	02/09/13

Basis: D=Dry Weight W=As Received

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P10-12
SAMPLE

Lab Sample ID: WD25A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 18:27
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.41 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 7.5%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.8	< 4.8 U
218-01-9	Chrysene	4.8	< 4.8 U
50-32-8	Benzo(a)pyrene	4.8	< 4.8 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.8	< 4.8 U
53-70-3	Dibenz(a,h)anthracene	4.8	< 4.8 U
TOTBFA	Total Benzofluoranthenes	4.8	< 4.8 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	76.7%
d14-Dibenzo(a,h)anthracen	94.0%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P10-16
SAMPLE

Lab Sample ID: WD25B
LIMS ID: 13-2880
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 18:55
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.85 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 10.7%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.6	< 4.6 U
218-01-9	Chrysene	4.6	< 4.6 U
50-32-8	Benzo(a)pyrene	4.6	< 4.6 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.6	< 4.6 U
53-70-3	Dibenz(a,h)anthracene	4.6	< 4.6 U
TOTBFA	Total Benzofluoranthenes	4.6	< 4.6 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	70.0%
d14-Dibenzo(a,h)anthracen	87.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: P11-10
SAMPLE

Lab Sample ID: WD25C
LIMS ID: 13-2881
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 19:22
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 11.07 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: 9.5%

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	4.5	< 4.5 U
218-01-9	Chrysene	4.5	< 4.5 U
50-32-8	Benzo(a)pyrene	4.5	< 4.5 U
193-39-5	Indeno(1,2,3-cd)pyrene	4.5	< 4.5 U
53-70-3	Dibenz(a,h)anthracene	4.5	< 4.5 U
TOTBFA	Total Benzofluoranthenes	4.5	< 4.5 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	67.3%
d14-Dibenzo(a,h)anthracen	84.3%

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SIM SW8270D-SIM GC/MS
Extraction Method: SW3546

Sample ID: MB-020913
METHOD BLANK

Lab Sample ID: MB-020913
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13
Date Analyzed: 02/12/13 12:01
Instrument/Analyst: NT4/JZ
GPC Cleanup: No
Silica Gel Cleanup: Yes
Alumina Cleanup: No

Sample Amount: 10.00 g-dry-wt
Final Extract Volume: 0.5 mL
Dilution Factor: 1.00
Percent Moisture: NA

CAS Number	Analyte	RL	Result
56-55-3	Benzo(a)anthracene	5.0	< 5.0 U
218-01-9	Chrysene	5.0	< 5.0 U
50-32-8	Benzo(a)pyrene	5.0	< 5.0 U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	< 5.0 U
53-70-3	Dibenz(a,h)anthracene	5.0	< 5.0 U
TOTBFA	Total Benzofluoranthenes	5.0	< 5.0 U

Reported in µg/kg (ppb)

SIM Semivolatile Surrogate Recovery

d10-2-Methylnaphthalene	77.0%
d14-Dibenzo(a,h)anthracen	89.3%

ANALYTICAL RESOURCES INCORPORATED

SIM SW8270 SURROGATE RECOVERY SUMMARY

Matrix: Soil

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108

Client ID	MNP	DBA	TOT OUT
MB-020913	77.0%	89.3%	0
LCS-020913	71.0%	96.7%	0
LCSD-020913	70.3%	93.0%	0
P10-12	76.7%	94.0%	0
P10-16	70.0%	87.3%	0
P11-10	67.3%	84.3%	0

	LCS/MB LIMITS	QC LIMITS
(MNP) = d10-2-Methylnaphthalene	(35-100)	(34-100)
(DBA) = d14-Dibenzo(a,h)anthracene	(37-120)	(10-117)

Prep Method: SW3546
Log Number Range: 13-2879 to 13-2881

FORM-II SIM SW8270

ANALYTICAL RESOURCES INCORPORATED

ORGANICS ANALYSIS DATA SHEET
PNAs by SW8270D-SIM GC/MS

Sample ID: LCS-020913
LAB CONTROL SAMPLE

Lab Sample ID: LCS-020913
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized: MW
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
Event: WP201108
Date Sampled: NA
Date Received: NA

Date Extracted: 02/09/13

Date Analyzed LCS: 02/12/13 12:28
LCSD: 02/12/13 12:56
Instrument/Analyst LCS: NT4/JZ
LCSD: NT4/JZ

Sample Amount LCS: 10.00 g-dry-wt
LCSD: 10.00 g-dry-wt
Final Extract Volume LCS: 0.50 mL
LCSD: 0.50 mL
Dilution Factor LCS: 1.00
LCSD: 1.00

Analyte	LCS	Spike Added-LCS	LCS Recovery	LCSD	Spike Added-LCSD	LCSD Recovery	RPD
Benzo(a)anthracene	112	150	74.7%	115	150	76.7%	2.6%
Chrysene	110	150	73.3%	114	150	76.0%	3.6%
Benzo(a)pyrene	97.6	150	65.1%	97.2	150	64.8%	0.4%
Indeno(1,2,3-cd)pyrene	116	150	77.3%	116	150	77.3%	0.0%
Dibenz(a,h)anthracene	114	150	76.0%	115	150	76.7%	0.9%
Total Benzofluoranthenes	347	450	77.1%	349	450	77.6%	0.6%

Reported in µg/kg (ppb)

RPD calculated using sample concentrations per SW846.

SIM Semivolatile Surrogate Recovery

	LCS	LCSD
d10-2-Methylnaphthalene	71.0%	70.3%
d14-Dibenzo(a,h)anthracen	96.7%	93.0%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P10-12
SAMPLE

Lab Sample ID: WD25A
LIMS ID: 13-2879
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Percent Total Solids: 91.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.5**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**35.0**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**21.6**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**2.5**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P10-16
SAMPLE

Lab Sample ID: WD25B
LIMS ID: 13-2880
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Percent Total Solids: 89.8%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**1.2**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**36.2**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**23.3**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**1.2**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.03	0.03	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P11-10
SAMPLE

Lab Sample ID: WD25C
LIMS ID: 13-2881
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD25-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/08/13
Date Received: 02/08/13

Percent Total Solids: 91.7%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	**7440-38-2**	**Arsenic**	0.2	**5.6**	
3050B	02/11/13	6010C	02/12/13	**7440-39-3**	**Barium**	0.3	**37.2**	
3050B	02/11/13	6010C	02/12/13	**7440-43-9**	**Cadmium**	0.2	**0.4**	
3050B	02/11/13	6010C	02/12/13	**7440-47-3**	**Chromium**	0.5	**31.2**	
3050B	02/11/13	200.8	02/12/13	**7439-92-1**	**Lead**	0.1	**1.6**	
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.03	0.03	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD14MB
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/11/13	200.8	02/12/13	7440-38-2	Arsenic	0.2	0.2	U
3050B	02/11/13	6010C	02/12/13	7440-39-3	Barium	0.3	0.3	U
3050B	02/11/13	6010C	02/12/13	7440-43-9	Cadmium	0.2	0.2	U
3050B	02/11/13	6010C	02/12/13	7440-47-3	Chromium	0.5	0.5	U
3050B	02/11/13	200.8	02/12/13	7439-92-1	Lead	0.1	0.1	U
CLP	02/11/13	7471A	02/12/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/11/13	6010C	02/12/13	7782-49-2	Selenium	5	5	U
3050B	02/11/13	6010C	02/12/13	7440-22-4	Silver	0.3	0.3	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD14LCS
LIMS ID: 13-2849
Matrix: Soil
Data Release Authorized:
Reported: 02/13/13

QC Report No: WD14-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	28.8	25.0	115%	
Barium	6010C	201	200	100%	
Cadmium	6010C	52.5	50.0	105%	
Chromium	6010C	50.6	50.0	101%	
Lead	200.8	27.8	25.0	111%	
Mercury	7471A	0.51	0.50	102%	
Selenium	6010C	206	200	103%	
Silver	6010C	52.0	50.0	104%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

Analytical Resources, Inc. #WD84

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 18, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WD84

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted four water samples on February 6, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were originally analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals as requested, on the COC and reported under ARI SDGs WC64 and WD27.

At the request of the client, select samples were analyzed for follow-up dissolved metals analysis.

There were no anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WD84

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WC64	Turn-around Requested: 5-days
ARI Client Company: Seattle Parks & Recreation	Phone: 206 684-7133
Client Contact: Martell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP201108	Samplers: Chris Cass / Danny Naylor

Page: 1 of 1

Date: 2-5-2013 | Ice Present? Y

No. of Coolers: 1 | Cooler Temps: 5.3

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No Containers	NWTPH-Gx	NWTPH-Dx	RCRA 8 Metals	VOCs 8260C	carcinogenic PAHs (8270C)	pentachloro-phenols PCPs			Notes/Comments
MW14-20130205	2-5-13	1245	water	10	X	X	X	X	X	X			
MW16-20130205	↓	1232	↓	10	X	X	X	X	X	X			
MW05-20130205	↓	1515	↓	10	X	X	X	X	X	X			
MW11-20130205	↓	1509	↓	10 ~~9~~	X	X	X	X	X	X			

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Send copy of report to Chris Cass at soundearthstrategies.com ccass@soundearthinc.com	[signature]	[signature]		
	Printed Name: Warren P. Rajkovich	Printed Name: Jennifer Millsap	Printed Name:	Printed Name:
	Company: SoundEarth Strategies	Company: ARI	Company:	Company:
	Date & Time: 2/6/13 09:40	Date & Time: 2/6/13 940	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Seattle Parks Rec

Project Name: Bryant Building

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: WC64

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry): 5.3

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90377952

Cooler Accepted by: JM Date: 2/6/13 Time: 940

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap, Wet Ice, Gel Packs, Baggies, Foam Block, Paper, Other: _____		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	NA	YES	(NO)
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI: (NA) YES Date/Time _____ Equipment _____ Split by _____

Samples Logged by: AV Date: 2/6/13 Time: 1107

***** Notify Project Manager of discrepancies or concerns *****

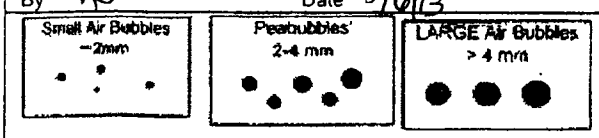
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

MW14 = 2Lg

MW05 = 1pb

By: AV Date: 2/6/13



Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

UCEU : 00000

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WD84
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	M14-20130205	WD84A	13-3139	Water	02/05/13 12:45	02/06/13 09:40
2.	MW16-20130205	WD84B	13-3140	Water	02/05/13 12:32	02/06/13 09:40
3.	MW05-20130205	WD84C	13-3141	Water	02/05/13 15:15	02/06/13 09:40

Subject: Re: Bryant project - follow up for dissolved As
From: Kelly Bottem <kellyb@arilabs.com>
Date: 2/14/2013 11:27 AM
To: Chris Cass <ccass@soundearthinc.com>
CC: Sheri Bozic <sbozic@soundearthinc.com>, 'Login' <login@arilabs.com>

Yes Chris.
Login please re-log the three samples listed below and have the lab filter and pres.
Rush 3 day TAT.
Thanks,
K

On 2/14/2013 11:26 AM, Chris Cass wrote:

> Hi Kelly,
> Could we get a follow up analysis for dissolved arsenic (method 200.8) on a rush basis for just 3 of the water samples? (and would the extra 500 ml amber collected for each water sample be sufficient for this analysis?).
> Just need follow up dissolved arsenic analysis for the following samples (from report WD27):
>
> MW05-20130205
> MW14-20130205
> MW16-20130205
>
> Thanks!
>
> Chris Cass
> Project Geologist
> SoundEarth Strategies, Inc.
>
> _____
> From: Kelly Bottem [kellyb@arilabs.com]
> Sent: Thursday, February 14, 2013 10:26 AM
> To: Marrell.Livesay@seattle.gov; Sheri Bozic; Chris Cass
> Subject: Re: WD25 rush Bryant
>
> On 2/13/2013 4:57 PM, Kelly Bottem wrote:
>
>> On 2/13/2013 12:44 PM, Kelly Bottem wrote:
>>
>>
>>
>>
>>
>> Kelly Frances Bottem, Client Services Manager
>> Analytical Resources, Inc.
>> 4611 S. 134th Place, Suite 100
>> Tukwila, WA 98168-3240
>> Website: http://www.arilabs.com
>> Direct Phone: 206-695-6211
>> E-Mail: kellyb@arilabs.com
>> Fax: 206-695-6201
>> Cell: 206-228-1385
>>
>>
>> "Never interrupt someone doing something you said couldn't be done" -
>> Amelia Earhart
>>
>>
>> ***Before printing, think about ENVIRONMENTAL responsibility

PRESERVATION VERIFICATION 02/14/13

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **WD84**

Inquiry Number: NONE
Analysis Requested: 02/14/13
Contact: Cass, Chris
Client: Sound Earth Strategies
Logged by: TS
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

PC: Kelly
VTSR: 02/06/13

Project #: WP201108
Project: Bryant Building
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
13-3139 **WD84A**	M14-20130205						DIS F									N			<2	MP2342	2mL	CB 2/14/13
13-3140 **WD84B**	MW16-20130205						DIS F									N			<2	↓	↓	↓
13-3141 **WD84C**	MW05-20130205						DIS F									N			<2	↓	↓	↓

Fail

File & preserve samples A-C in lab - CB 2/14/13

Checked By TS Date 2-14-13

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: M14-20130205
SAMPLE

Lab Sample ID: WD84A
LIMS ID: 13-3139
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/15/13	200.8	02/18/13	**7440-38-2**	**Arsenic**	0.2	**22.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: M14-20130205
DUPLICATE

Lab Sample ID: WD84A
LIMS ID: 13-3139
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	200.8	22.3	22.2	0.4%	+/- 20%	

Reported in µg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: M14-20130205
MATRIX SPIKE

Lab Sample ID: WD84A
LIMS ID: 13-3139
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	200.8	22.3	50.5	25.0	113%	

Reported in µg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW16-20130205
SAMPLE

Lab Sample ID: WD84B
LIMS ID: 13-3140
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/15/13	200.8	02/18/13	**7440-38-2**	**Arsenic**	0.2	**1.3**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: MW05-20130205
SAMPLE

Lab Sample ID: WD84C
LIMS ID: 13-3141
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/05/13
Date Received: 02/06/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/15/13	200.8	02/18/13	**7440-38-2**	**Arsenic**	0.2	**24.0**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: METHOD BLANK

Lab Sample ID: WD84MB
LIMS ID: 13-3141
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	µg/L	Q
200.8	02/15/13	200.8	02/18/13	7440-38-2	Arsenic	0.2	0.2	U

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
DISSOLVED METALS

Sample ID: LAB CONTROL

Lab Sample ID: WD84LCS
LIMS ID: 13-3141
Matrix: Water
Data Release Authorized:
Reported: 02/18/13

QC Report No: WD84-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Arsenic	200.8	28.8	25.0	115%	

Reported in µg/L

N-Control limit not met
Control Limits: 80-120%

Analytical Resources, Inc. #WE43

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 26, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WE43

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted twenty three soil samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Several samples have been placed on hold pending further instructions.

The samples were originally analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals, as requested on the COC and reported under ARI SDG WD14. At the request of the client, sample PO7-03 was analyzed for Total Metals and reported under ARI WE43.

The total metals matrix spike is out of control high for zinc with a sample duplicate RPD for tin outside of the +/-20% control limit. All other QC is in control and no further corrective action was taken.

There were no other anomalies associated with these analyses.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WE43

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: WD14	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP201108	Samplers: CGC

Page: 1 of 3	
Date: 2-7-2013	Ice Present?
No. of Coolers:	Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	Carcinogenic PAHs	Pesticides (8081)			Notes/Comments
P01-04	2-7-13	0815	Soil	6	X	X	X	X	X	X			
P01-06		0820			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			Hold GC
P01-10		0825											
P02-03		0915			X	X	X	X	X	X			
P02-08		0920											
P02-12		0925											
P04-03		1030											
P04-06		1035			X	X	X	X	X	X			
P03-03		1050			X	X	X	X	X	X			
P03-08		1055											

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Send copy of report to: Chris Cass of SoundEarth Strategies, Inc. ccass@soundearthinc.com	[signature]	[signature]		
	Printed Name: Warren Rajkovich	Printed Name: Taylor Streeter	Printed Name:	Printed Name:
	Company: SoundEarth Strategies	Company: ARI	Company:	Company:
	Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: CGC

Page: 2 of 3

Date: 2-7-2013 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	Carcinogenic PAHs (8270C)	Pesticides/Herbicides (8081/8151)			Notes/Comments
P03-10	2-7-13	1100	Soil	6									
P05-03		1130		6									
P05-06		1135		6	X	X	X	X	X	X			
P06-03		1145		6	X	X	X	X	X	X			
P06-08		1150		6									
P07-03		1335		6	X	X	X	X	X	X			
P07-08		1340		6									
P07-12		1345		6									
P08-03		1430		6	X	X	X	X	X	X			
P08-06		1435		6									

Comments/Special Instructions: See page 1

Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Printed Name: Warren Rajkovich	Printed Name: Jay Lee Streeter	Printed Name:	Printed Name:
Company: SES	Company: ARI	Company	Company
Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP20112.8	Samplers: CGC

Page: 3 of 3

Date: 2-7-2013 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOC 8260C	Carcinogenic PAHs (8270C)	Pentachlorophenol (8041)			Notes/Comments
FC9-04	2-7-13	1515	Soil	6	X	X	X	X	X	X			
FC9-08	↓	1520	↓	6									
FC9-10	↓	1525	↓	6									

Comments/Special Instructions: See page 1

Relinquished by: (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by (Signature)
Printed Name: Warren Rajkovich	Printed Name: Jay In Streeter	Printed Name	Printed Name:
Company: SES	Company: ARI	Company:	Company:
Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WE43
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P07-03	WE43A	13-3377	Soil	02/07/13 13:35	02/08/13 10:25

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client Sound Earth Strategies ~~Seattle Pacific~~

COC No(s) _____ (NA)

Assigned ARI Job No WD14

Project Name Bryant Building

Delivered by Fed-Ex UPS Courier Hand Delivered Other _____

Tracking No. _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	~~NO~~
Were custody papers included with the cooler?	~~YES~~	NO
Were custody papers properly filled out (ink, signed, etc)	~~YES~~	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6 0 °C for chemistry)	1.5 2.1 2.1 4.1	

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID# 90377952

Cooler Accepted by TC Date 2-8-13 Time 1025

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? Bubble Wrap (Wet Ice) Gel Packs (Baggies) Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI (NA) YES Date/Time _____ Equipment _____ Split by: _____

Samples Logged by AV Date 2/8/13 Time 1432

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
* P03-02	P02-03		

Additional Notes, Discrepancies, & Resolutions:

* only on 3 vials, vials have correct date and time

By AV Date 2/8/13

Small Air Bubbles <2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	
			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Subject: RE: WD14 rush Bryant
From: Chris Cass <ccass@soundearthinc.com>
Date: 2/21/2013 11:35 AM
To: Kelly Bottem <kellyb@arilabs.com>
CC: "Livesay, Marrell" <Marrell.Livesay@seattle.gov>

Hi Kelly,
Marrell mentioned your lab is familiar with this analysis for a specific suite of metals. Would this be on-file at the lab from another Parks and Rec project?

Chris Cass, LG
Project Geologist

SoundEarth Strategies, Inc.
2811 Fairview Ave East, Suite 2000
Seattle, Washington 98102
Main: 206.306.1900
Direct: 206.436.5953
Mobile: 425.765.4490

-----Original Message-----
From: Kelly Bottem [mailto:kellyb@arilabs.com]
Sent: Thursday, February 21, 2013 11:21 AM
To: Chris Cass
Cc: Livesay, Marrell
Subject: Re: WD14 rush Bryant

Hi Chris-
Sure. I am not familiar with TEE metals. Could you please specify?
Thanks,
K

:09 two jobs see list

On 2/21/2013 10:40 AM, Chris Cass wrote:

> Hi Kelly,
> Could you run the sample with the highest metals concentration, sample P07-03, for TEE metals on a 5-day turnaround time?
>
> Also, could you perform TCLP analysis for just lead and arsenic on sample P07-03, with a standard 2-week turnaround time?
> Thanks!
>
> Chris Cass, LG
> Project Geologist
>
> SoundEarth Strategies, Inc.
> 2811 Fairview Ave East, Suite 2000
> Seattle, Washington 98102
> Main: 206.306.1900
> Direct: 206.436.5953
> Mobile: 425.765.4490

Return list to me

thx

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P07-03
SAMPLE

Lab Sample ID: WE43A
LIMS ID: 13-3377
Matrix: Soil
Data Release Authorized:
Reported: 02/25/13

QC Report No: WE43-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Percent Total Solids: 52.5%

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/22/13	6010C	02/25/13	**7440-36-0**	**Antimony**	9	**296**	
3050B	02/22/13	6010C	02/25/13	**7440-38-2**	**Arsenic**	9	**20**	
3050B	02/22/13	6010C	02/25/13	**7440-39-3**	**Barium**	0.5	**403**	
3050B	02/22/13	6010C	02/25/13	7440-41-7	Beryllium	0.2	0.2	U
3050B	02/22/13	6010C	02/25/13	**7440-42-8**	**Boron**	4	**5**	
3050B	02/22/13	6010C	02/25/13	**7440-43-9**	**Cadmium**	0.4	**1.0**	
3050B	02/22/13	6010C	02/25/13	**7440-47-3**	**Chromium**	0.9	**35.9**	
3050B	02/22/13	6010C	02/25/13	**7440-48-4**	**Cobalt**	0.5	**5.5**	
3050B	02/22/13	6010C	02/25/13	**7440-50-8**	**Copper**	0.4	**1,170**	
3050B	02/22/13	6010C	02/25/13	**7439-92-1**	**Lead**	4	**6,860**	
3050B	02/22/13	6010C	02/25/13	**7439-95-4**	**Magnesium**	9	**2,890**	
3050B	02/22/13	6010C	02/25/13	**7439-96-5**	**Manganese**	0.2	**372**	
CLP	02/21/13	7471A	02/22/13	**7439-97-6**	**Mercury**	0.04	**0.12**	
3050B	02/22/13	6010C	02/25/13	7439-98-7	Molybdenum	0.9	0.9	U
3050B	02/22/13	6010C	02/25/13	**7440-02-0**	**Nickel**	2	**25**	
3050B	02/22/13	6010C	02/25/13	7782-49-2	Selenium	9	9	U
3050B	02/22/13	6010C	02/25/13	**7440-22-4**	**Silver**	0.5	**1.1**	
3050B	02/22/13	6010C	02/25/13	**7440-31-5**	**Tin**	2	**514**	
3050B	02/22/13	6010C	02/25/13	**7440-62-2**	**Vanadium**	0.5	**32.6**	
3050B	02/22/13	6010C	02/25/13	**7440-66-6**	**Zinc**	2	**333**	

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P07-03
DUPLICATE

Lab Sample ID: WE43A
LIMS ID: 13-3377
Matrix: Soil
Data Release Authorized:
Reported: 02/25/13

QC Report No: WE43-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Antimony	6010C	296	430	36.9%	+/- 20%	*
Arsenic	6010C	20	24	18.2%	+/- 9	L
Barium	6010C	403	372	8.0%	+/- 20%	
Beryllium	6010C	0.2 U	0.2 U	0.0%	+/- 0.2	L
Boron	6010C	5	5	0.0%	+/- 4	L
Cadmium	6010C	1.0	0.9	10.5%	+/- 0.4	L
Chromium	6010C	35.9	34.2	4.9%	+/- 20%	
Cobalt	6010C	5.5	5.1	7.5%	+/- 20%	
Copper	6010C	1,170	1,160	0.9%	+/- 20%	
Lead	6010C	6,860	7,090	3.3%	+/- 20%	
Magnesium	6010C	2,890	3,030	4.7%	+/- 20%	
Manganese	6010C	372	323	14.1%	+/- 20%	
Mercury	7471A	0.12	0.11	8.7%	+/- 0.04	L
Molybdenum	6010C	0.9 U	0.9 U	0.0%	+/- 0.9	L
Nickel	6010C	25	26	3.9%	+/- 20%	
Selenium	6010C	9 U	9 U	0.0%	+/- 9	L
Silver	6010C	1.1	1.3	16.7%	+/- 0.5	L
Tin	6010C	514	851	49.4%	+/- 20%	*
Vanadium	6010C	32.6	28.9	12.0%	+/- 20%	
Zinc	6010C	333	283	16.2%	+/- 20%	

Reported in mg/kg-dry

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: P07-03
MATRIX SPIKE

Lab Sample ID: WE43A
LIMS ID: 13-3377
Matrix: Soil
Data Release Authorized:
Reported: 02/25/13

QC Report No: WE43-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Antimony	6010C	296	619	354	91.2%	
Arsenic	6010C	20	387	354	104%	
Barium	6010C	403	699	354	83.6%	
Beryllium	6010C	0.2 U	84.3	88.4	95.4%	
Boron	6010C	5	88	88.4	93.9%	
Cadmium	6010C	1.0	93.8	88.4	105%	
Chromium	6010C	35.9	124	88.4	99.7%	
Cobalt	6010C	5.5	94.0	88.4	100%	
Copper	6010C	1,170	1,580	88.4	464%	H
Lead	6010C	6,860	9,180	354	655%	H
Magnesium	6010C	2,890	4,680	1,770	101%	
Manganese	6010C	372	484	88.4	127%	H
Mercury	7471A	0.12	0.53	0.402	102%	
Molybdenum	6010C	0.9 U	81.2	88.4	91.9%	
Nickel	6010C	25	112	88.4	98.4%	
Selenium	6010C	9 U	351	354	99.2%	
Silver	6010C	1.1	92.6	88.4	104%	
Tin	6010C	514	824	88.4	351%	H
Vanadium	6010C	32.6	119	88.4	97.7%	
Zinc	6010C	333	528	88.4	221%	N

Reported in mg/kg-dry

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: METHOD BLANK

Lab Sample ID: WE43MB
LIMS ID: 13-3377
Matrix: Soil
Data Release Authorized:
Reported: 02/25/13

QC Report No: WE43-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Percent Total Solids: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	LOQ	mg/kg-dry	Q
3050B	02/22/13	6010C	02/25/13	7440-36-0	Antimony	5	5	U
3050B	02/22/13	6010C	02/25/13	7440-38-2	Arsenic	5	5	U
3050B	02/22/13	6010C	02/25/13	7440-39-3	Barium	0.3	0.3	U
3050B	02/22/13	6010C	02/25/13	7440-41-7	Beryllium	0.1	0.1	U
3050B	02/22/13	6010C	02/25/13	7440-42-8	Boron	2	2	U
3050B	02/22/13	6010C	02/25/13	7440-43-9	Cadmium	0.2	0.2	U
3050B	02/22/13	6010C	02/25/13	7440-47-3	Chromium	0.5	0.5	U
3050B	02/22/13	6010C	02/25/13	7440-48-4	Cobalt	0.3	0.3	U
3050B	02/22/13	6010C	02/25/13	7440-50-8	Copper	0.2	0.2	U
3050B	02/22/13	6010C	02/25/13	7439-92-1	Lead	2	2	U
3050B	02/22/13	6010C	02/25/13	7439-95-4	Magnesium	5	5	U
3050B	02/22/13	6010C	02/25/13	7439-96-5	Manganese	0.1	0.1	U
CLP	02/21/13	7471A	02/22/13	7439-97-6	Mercury	0.02	0.02	U
3050B	02/22/13	6010C	02/25/13	7439-98-7	Molybdenum	0.5	0.5	U
3050B	02/22/13	6010C	02/25/13	7440-02-0	Nickel	1	1	U
3050B	02/22/13	6010C	02/25/13	7782-49-2	Selenium	5	5	U
3050B	02/22/13	6010C	02/25/13	7440-22-4	Silver	0.3	0.3	U
3050B	02/22/13	6010C	02/25/13	7440-31-5	Tin	1	1	U
3050B	02/22/13	6010C	02/25/13	7440-62-2	Vanadium	0.3	0.3	U
3050B	02/22/13	6010C	02/25/13	7440-66-6	Zinc	1	1	U

U-Analyte undetected at given LOQ
LOQ-Limit of Quantitation

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TOTAL METALS

Sample ID: LAB CONTROL

Lab Sample ID: WE43LCS
LIMS ID: 13-3377
Matrix: Soil
Data Release Authorized:
Reported: 02/25/13

QC Report No: WE43-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

BLANK SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Spike Found	Spike Added	% Recovery	Q
Antimony	6010C	204	200	102%	
Arsenic	6010C	210	200	105%	
Barium	6010C	211	200	106%	
Beryllium	6010C	50.3	50.0	101%	
Boron	6010C	50	50	100%	
Cadmium	6010C	53.8	50.0	108%	
Chromium	6010C	53.0	50.0	106%	
Cobalt	6010C	52.0	50.0	104%	
Copper	6010C	51.4	50.0	103%	
Lead	6010C	209	200	104%	
Magnesium	6010C	1030	1000	103%	
Manganese	6010C	52.2	50.0	104%	
Mercury	7471A	0.50	0.50	100%	
Molybdenum	6010C	50.0	50.0	100%	
Nickel	6010C	51	50	102%	
Selenium	6010C	207	200	104%	
Silver	6010C	53.2	50.0	106%	
Tin	6010C	49	50	98.0%	
Vanadium	6010C	51.1	50.0	102%	
Zinc	6010C	50	50	100%	

Reported in mg/kg-dry

N-Control limit not met
NA-Not Applicable, Analyte Not Spiked
Control Limits: 80-120%

-----Original Message-----
From: Kelly Bottem [mailto:kellyb@arilabs.com]
Sent: Wednesday, February 13, 2013 4:58 PM
To: Marrell.Livesay@seattle.gov; Sheri Bozic; Chris Cass
Subject: Re: WD14 rush Bryant

On 2/13/2013 12:44 PM, Kelly Bottem wrote:

Kelly Frances Bottem, Client Services Manager Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168-3240
Website: http://www.arilabs.com
Direct Phone: 206-695-6211
E-Mail: kellyb@arilabs.com
Fax: 206-695-6201
Cell: 206-228-1385

"Never interrupt someone doing something you said couldn't be done" - Amelia Earhart

***Before printing, think about ENVIRONMENTAL responsibility

This correspondence contains confidential information from Analytical Resources, Inc. (ARI) The information contained herein is intended solely for the use of the individual(s) named above. If you are not the intended recipient, any copying, distribution, disclosure, or use of the text and/or attached document(s) is strictly prohibited.

If you have received this correspondence in error, please notify sender immediately. Thank you.

--

Kelly Frances Bottem, Client Services Manager Analytical Resources, Inc.
4611 S. 134th Place, Suite 100
Tukwila, WA 98168-3240
Website: http://www.arilabs.com
Direct Phone: 206-695-6211
E-Mail: kellyb@arilabs.com
Fax: 206-695-6201
Cell: 206-228-1385

"Never interrupt someone doing something you said couldn't be done" - Amelia Earhart

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individual(s) named above. If you are not the intended recipient, any copying, distribution, disclosure, or use of the text and/or attached document(s) is strictly prohibited.

If you have received this correspondence in error, please notify sender immediately. Thank you.

Analytical Resources, Inc. #WE44

Analytical Resources, Incorporated
Analytical Chemists and Consultants

February 27, 2013

Mr. Marrell Livesay, Project Manager
Seattle Department of Parks and Recreation
800 Maynard Ave South, 3rd Floor
Seattle, WA 98134-1335

RE: Project: Bryant Building
ARI Job No.: WE44

Dear Marrell:

Please find enclosed the original Chain-of-Custody (COC) record, sample receipt documentation, and the analytical results for the samples from the projects referenced above. Analytical Resources, Inc. (ARI) accepted twenty three soil samples on February 8, 2013 in good condition. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form. Several samples have been placed on hold pending further instructions.

The samples were originally analyzed for VOCs, cPAHs, NWTPH-Dx, PCP, NWTPH-Gx and Total Metals, as requested on the COC and reported under ARI SDG WD14 and WE43. At the request of the client, sample PO7-03 was analyzed for TCLP lead and arsenic and reported under ARI WE44.

There were no anomalies associated with the analysis.

A copy of these reports and all associated supporting data will be kept on file at ARI. If you have any questions or require additional information, please contact me at your convenience.

Sincerely,

ANALYTICAL RESOURCES, INC.

Kelly Bottem
Client Services Manager
kellyb@arilabs.com
206/695-6211

enclosures

cc: file WE44

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

Chain of Custody Record & Laboratory Analysis Request

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

ARI Assigned Number: WDD14
Turn-around Requested: 5-day
Page: 1 of 3
ARI Client Company: Seattle Parks & Recreation
Phone: 206-684-7133
Date: 2-7-2013
Ice Present?
Client Contact: Marrell Livesay
No. of Coolers:
Cooler Temps:
Client Project Name: Bryant Building
Client Project #: WP20108
Samplers: CGC

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	Carcinogenic PAHs	Pesticides (8081)			Notes/Comments
P01-04	2-7-13	0815	Soil	6	X	X	X	X	X	X			
P01-06		0820			~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~			Hold GC
P01-10		0825											
P02-03		0915			X	X	X	X	X	X			
P02-08		0920											
P02-12		0925											
P04-03		1030											
P04-06		1035			X	X	X	X	X	X			
P03-03		1050			X	X	X	X	X	X			
P03-08		1055											

Comments/Special Instructions: Send copy of report to: Chris Cass of SoundEarth Strategies, Inc. ccass@soundearthinc.com

Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
Printed Name: Warren Rajkovich	Printed Name: Taylor Streater	Printed Name:	Printed Name:
Company: SoundEarth Strategies	Company: ARI	Company:	Company:
Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7135
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP 201108	Samplers: CGC

Page: 2 of 3

Date: 2-7-2013 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 Metals	VOCs 8260C	carcinogenic PAHs (8270C)	Pentachlorophenol (8270D)			Notes/Comments
P03-10	2-7-13	1100	Soil	6									
P05-03		1130		6									
P05-06		1135		6	X	X	X	X	X	X			
P06-03		1145		6	X	X	X	X	X	X			
P06-08		1150		6									
P07-03		1335		6	X	X	X	X	X	X			
P07-08		1340		6									
P07-12		1345		6									
P08-03		1430		6	X	X	X	X	X	X			
P08-06		1435		6									

Comments/Special Instructions	Relinquished by (Signature)	Received by (Signature)	Relinquished by (Signature)	Received by (Signature)
See page 1	[signature]	[signature]		
	Printed Name: Warren Rajkovich	Printed Name: Tony Le Strecker	Printed Name:	Printed Name:
	Company: SES	Company: ARI	Company	Company
	Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

WD14:00025

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested: 5-day
ARI Client Company: Seattle Parks & Recreation	Phone: 206-684-7133
Client Contact: Marrell Livesay	
Client Project Name: Bryant Building	
Client Project #: WP20112.8	Samplers: CGC

Page: 3 of 3

Date: 2-7-2013 | Ice Present?

No. of Coolers: | Cooler Temps:

Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)

Sample ID	Date	Time	Matrix	No. Containers	NWTPH-Dx	NWTPH-Gx	RCRA 8 metals	VOC 8260C	carcinogenic PAHs (8270C)	Pentachlorophenol (8041)			Notes/Comments
FC9-04	2-7-13	1515	Soil	6	X	X	X	X	X	X			
FC9-08	↓	1520	↓	6									
FC9-10	↓	1525	↓	6									

Comments/Special Instructions: See page 1

Relinquished by: (Signature)	Received by (Signature)	Relinquished by: (Signature)	Received by (Signature)
Printed Name: Warren Rajkovich	Printed Name: Jay Ir Streeter	Printed Name	Printed Name:
Company: SES	Company: ARI	Company:	Company:
Date & Time: 2/8/13 1025	Date & Time: 2-8-13 1025	Date & Time:	Date & Time:

Limits of Liability: *ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the Invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.*

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WE43
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P07-03	WE43A	13-3377	Soil	02/07/13 13:35	02/08/13 10:25

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client Sound Earth Strategies ~~Seattle Facility~~

COC No(s) _____ (NA)

Assigned ARI Job No WD14

Project Name: Bryant Building

Delivered by Fed-Ex UPS Courier Hand Delivered Other _____

Tracking No. _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6 0 °C for chemistry)	1.5 2.7 2.2 4.1	

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90377952

Cooler Accepted by: TC Date: 2-8-13 Time: 1025

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Was Sample Split by ARI (NA) YES Date/Time: _____ Equipment _____ Split by: _____

Samples Logged by: AV Date: 2/8/13 Time: 1432

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC
* P03-02	P02-03		

Additional Notes, Discrepancies, & Resolutions:

* only on 3 vials, vials have correct date and time

By: AV Date: 2/8/13

Small Air Bubbles ~2mm	Peabubbles 2-4 mm	LARGE Air Bubbles > 4 mm	
			Small → "sm"
			Peabubbles → "pb"
			Large → "lg"
			Headspace → "hs"

Subject: RE: WD14 rush Bryant
From: Chris Cass <ccass@soundearthinc.com>
Date: 2/21/2013 11:35 AM
To: Kelly Bottem <kellyb@arilabs.com>
CC: "Livesay, Marrell" <Marrell.Livesay@seattle.gov>

Hi Kelly,
Marrell mentioned your lab is familiar with this analysis for a specific suite of metals. Would this be on-file at the lab from another Parks and Rec project?

Chris Cass, LG
Project Geologist

SoundEarth Strategies, Inc.
2811 Fairview Ave East, Suite 2000
Seattle, Washington 98102
Main: 206.306.1900
Direct: 206.436.5953
Mobile: 425.765.4490

-----Original Message-----
From: Kelly Bottem [mailto:kellyb@arilabs.com]
Sent: Thursday, February 21, 2013 11:21 AM
To: Chris Cass
Cc: Livesay, Marrell
Subject: Re: WD14 rush Bryant

Hi Chris-
Sure. I am not familiar with TEE metals. Could you please specify?
Thanks,
K

two jobs
:09 see list

On 2/21/2013 10:40 AM, Chris Cass wrote:

> Hi Kelly,
> Could you run the sample with the highest metals concentration, sample P07-03, for TEE metals on a 5-day turnaround time?
>
> Also, could you perform TCLP analysis for just lead and arsenic on sample P07-03, with a standard 2-week turnaround time?
> Thanks!
>
> Chris Cass, LG
> Project Geologist
>
> SoundEarth Strategies, Inc.
> 2811 Fairview Ave East, Suite 2000
> Seattle, Washington 98102
> Main: 206.306.1900
> Direct: 206.436.5953
> Mobile: 425.765.4490

Return list to me

thx

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WE44
Client: Sound Earth Strategies
Project Event: WP201108
Project Name: Bryant Building

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	P07-03	WE44A	13-3378	Soil	02/07/13 13:35	02/08/13 10:25

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: P07-03
SAMPLE

Lab Sample ID: WE44A
LIMS ID: 13-3378
Matrix: Soil
Data Release Authorized:
Reported: 02/27/13

QC Report No: WE44-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/22/13	6010C	02/26/13	7440-38-2	Arsenic	0.2	0.2	U
1311	02/22/13	6010C	02/26/13	**7439-92-1**	**Lead**	0.1	**19.1**	

U-Analyte undetected at given RL
RL-Reporting Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: P07-03
DUPLICATE

Lab Sample ID: WE44A
LIMS ID: 13-3378
Matrix: Soil
Data Release Authorized:
Reported: 02/27/13

QC Report No: WE44-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX DUPLICATE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Duplicate	RPD	Control Limit	Q
Arsenic	6010C	0.2 U	0.2 U	0.0%	+/- 0.2	L
Lead	6010C	19.1	19.0	0.5%	+/- 20%	

Reported in mg/L

*-Control Limit Not Met
L-RPD Invalid, Limit = Detection Limit

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: P07-03
MATRIX SPIKE

Lab Sample ID: WE44A
LIMS ID: 13-3378
Matrix: Soil
Data Release Authorized:
Reported: 02/27/13

QC Report No: WE44-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: 02/07/13
Date Received: 02/08/13

MATRIX SPIKE QUALITY CONTROL REPORT

Analyte	Analysis Method	Sample	Spike	Spike Added	% Recovery	Q
Arsenic	6010C	0.2 U	4.4	4.0	110%	
Lead	6010C	19.1	22.7	4.0	90.0%	H

Reported in mg/L

N-Control Limit Not Met
H-% Recovery Not Applicable, Sample Concentration Too High
NA-Not Applicable, Analyte Not Spiked or diluted near or below detection limit

Percent Recovery Limits: 75-125%

ANALYTICAL RESOURCES INCORPORATED

INORGANICS ANALYSIS DATA SHEET
TCLP METALS

Sample ID: METHOD BLANK

Lab Sample ID: WE44MB
LIMS ID: 13-3378
Matrix: Soil
Data Release Authorized:
Reported: 02/27/13

QC Report No: WE44-Sound Earth Strategies
Project: Bryant Building
WP201108
Date Sampled: NA
Date Received: NA

Prep Meth	Prep Date	Analysis Method	Analysis Date	CAS Number	Analyte	RL	mg/L	Q
1311	02/22/13	6010C	02/26/13	7440-38-2	Arsenic	0.2	0.2	U
1311	02/22/13	6010C	02/26/13	7439-92-1	Lead	0.1	0.1	U

U-Analyte undetected at given RL
RL-Reporting Limit

ATTACHMENT C
PROPERTY PHOTOGRAPHS

Photograph 1. Southerly facing view during drilling of boring P01.

Photograph 2. West-southwesterly facing view during drilling of boring P02.

Photograph 3. Northwesterly facing view during groundwater sampling from boring P03.

Photograph 4. Northeast-facing view of the closed-in-place heating oil UST area (approximate limits marked in white paint) and borings P04 and P05.

Photograph 5. Southeast-facing view during advancement of interior boring P08.

Photograph 6. Easterly facing view during drilling of boring P11.

SoundEarth Strategies	Project No.: 0355-073 Date: 02/26/13 Drawn By: CGC Checked By: RKB File ID: Photolog.doc	**PROPERTY PHOTOGRAPHS** Bryant Building Property 1101 through 1137 Northeast Boat Street Seattle, Washington