

## **Site Investigation Report**

Heritage Square  
Astoria, Oregon (ECSI #4075)

for

**Oregon Department of Environmental Quality**

June 29, 2012



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**Astoria, Oregon**

**File No. 2787-073-00**

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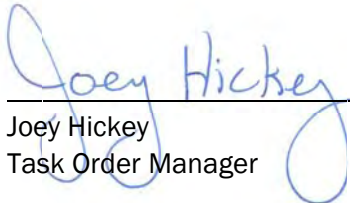
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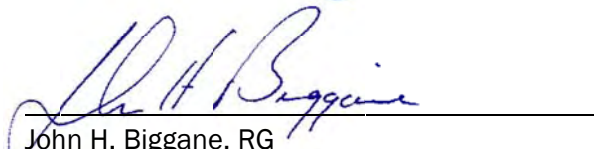
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## 1.0 INTRODUCTION

This report presents the results of the Site Investigation (SI) completed at the Heritage Square site in Astoria, Oregon (ECSI #4075). This Task Order is being funded by the Oregon Department of Environmental Quality's (DEQ) "State Response" U.S. Environmental Protection Agency (EPA) Brownfield grant.

The site location is shown in Figure 1 and the site plan is shown in Figure 2. GeoEngineers conducted the SI in general accordance with the SI Work Plan (Work Plan) dated May 8, 2012. This SI has been prepared for DEQ under Task Order 058-08-55.

The SI field activities were conducted on May 15 through 17, 2012. The SI included the completion of 14 direct-push explorations of which 11 were used for the collection of soil and groundwater samples and three for the collection of soil gas samples. In addition, the SI included the advancement of 10 hand augers explorations to collect additional soil and groundwater samples.

## 2.0 BACKGROUND

GeoEngineers was asked to review the project files for the site. The primary Hahn and Associates documentation reviewed included: 1) Phase I Environmental Site Assessment, 2003a; 2) Phase II Environmental Site Assessment, 2003b; 3) Subsurface Investigation Report, 2003c; 4) Tank Decommissioning Report, 2003d; and 5) Technical Memorandum, Data Evaluation and Scope Development, Former Safeway, September 2011.

We understand the City of Astoria is planning to redevelop the former Safeway property located at 1153 Duane Street in Astoria, Oregon (Safeway Property). The Safeway Property, including the grocery store and associated parking area, formerly occupied the eastern half of the block bounded by 11<sup>th</sup> Street (west), Duane Street (north), 12<sup>th</sup> Street (east), and Exchange Street (south). The site and surrounding area were developed in the late 1800s on top of wooden piers within the former Columbia River tidal area. Over time, the property was filled with clayey silt, sand and other fill material.

In addition to the Safeway grocery store, previous site use included an automotive repair garage and paint shop, a used car lot, a dry cleaning business, and a newspaper printing company. The Safeway store was closed in 2003 and the building was demolished in 2005. The site is currently vacant; however, the western portion of the same block is occupied by a building owned and currently used by the American Legion and a public parking area.

In 2003, the City of Astoria contracted Hahn and Associates (Hahn) to complete a number of environmental investigations including a Phase I Environmental Site Assessment (ESA), a Phase II ESA, additional subsurface investigations and tank decommissioning services. The previous investigations identified numerous recognized environmental conditions (RECs), including the historic presence of underground storage tanks (USTs) and drycleaner facilities. The primary RECs included:

- A heating oil underground storage tank (UST) associated with the American Legion property. The American Legion UST is located on the southeast corner of the American Legion building, north of Exchange Street.
- A heating oil UST associated with the former Safeway store. The Safeway UST was located approximately 100 feet west of 12<sup>th</sup> Street, immediately north of the sidewalk.
- A heating oil above ground storage tank (AST) associated with the former Safety store. The AST was located approximately 130 feet west of 12<sup>th</sup> Street, within the vaulted sidewalk.
- The presence of three pad mounted fluid filled electrical transformers. The transformers are located beneath the 11<sup>th</sup> Street and 12<sup>th</sup> Street sidewalks, adjacent to the site.
- The historical operation of an automobile repair shop on the site.
- The historical operation of an automotive painting shop on the site.
- The historical operation of a dry cleaning operation on site.

Elevated levels of petroleum hydrocarbons, volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyls (PCBs) and metals were detected in soil and groundwater at the site. The previous work did not identify the full extent of contamination at the site.

Based on work completed by Hahn, contaminants of interest (COI) for the former Safeway property included gasoline-, diesel-, and heavy oil-range petroleum hydrocarbons; PAHs, VOCs, PCBs and metals (e.g., lead).

### **3.0 PURPOSE**

The purpose of the SI is to:

- Assess the magnitude and extent of contamination in soil, groundwater and soil gas caused by former site activities;
- Update the beneficial land and water use determination (BLWUD) that was prepared by Hahn and Associates during previous work for the site;
- Develop a preliminary conceptual site model (CSM) for potential human health and ecological exposure, and compare contaminant concentrations to DEQ's Risk Based Concentrations (RBCs) and ecological screening level values (SLVs) for complete exposure pathways; and
- Determine if further action is warranted at the site based on the SI work completed.

### **4.0 SCOPE OF SERVICES**

Our services were completed in general accordance with the Work Plan dated May 8, 2012 and the Budget and Assumption Proposals (BAPs), dated March 19, 2012 and May 10, 2012. The scope of services completed for the SI included the following tasks:

- Conducted a standard “One-call” underground utility locate and a private underground utility locate prior to beginning the fieldwork.
- Completed 14 direct-push explorations to depths as great as 40 feet below ground surface (bgs) with concurrent subsurface soil and groundwater sampling to assess the nature and extent of contamination in soil and groundwater.
- Completed 10 hand auger explorations to depths as great as 5.5 feet bgs with concurrent subsurface soil and groundwater sampling to assess the nature and extent of contamination in soil and groundwater.
- Completed a soil gas risk screening investigation (SGRSI) that consisted of collection of soil vapor samples from three temporary soil gas probes (SGPs).
- Field screened soil samples for the presence of petroleum hydrocarbons and associated constituents.
- Submitted soil, groundwater and soil gas samples to an analytical laboratory for chemical analysis of site-related COI.
- Updated the previous BLWUD.
- Prepared a preliminary CSM.
- Prepared this SI report that describes the above activities, the analytical results, CSM and the potential risks posed by chemical contamination at the site.

A description of the SI activities is presented in sections below.

## **5.0 SUBSURFACE EXPLORATION PROGRAM**

The SI was conducted in general accordance with the Work Plan, dated May 8, 2012. Field activities were completed on May 15 through 17, 2012. Field methods used during the SI are described in Appendix A. Figure 2 shows the location of the current site features.

### **5.1 Soil Explorations**

GeoEngineers documented the completion of 11 direct-push explorations (DP-01, DP-03 through DP-04, DP-05, DP-08 through DP-10) to a depth of approximately 15 feet bgs. Four direct-push explorations (DP-02, DP-06, DP-07 and DP-11) were advanced to depths up to 40 feet bgs). In addition, 10 hand auger explorations (HA-1, HA-2 and DP-12 through DP-19) were advanced to depths ranging from 3 to 5.5 feet bgs.

The purpose of the explorations was to assess subsurface conditions related to historic property uses including automobile painting and repair and dry cleaning operations as well as documented heating oil tanks (HOT) and PCB containing electrical transformers. The direct-push explorations were completed using direct-push drilling equipment owned and operated by Pacific Soil and Water, LLC.

A GeoEngineers representative observed each soil exploration and collected soil samples from each exploration for chemical analysis. Boring logs were prepared in general accordance with

ASTM International (ASTM) Standard Procedure D 2488-90. The SI field procedures and boring logs details are presented in Appendix A. Figure 2 shows the locations of the explorations.

#### **5.1.1 Soil Sampling from Direct-Push and Hand Auger Explorations**

Soil samples were continuously collected from the direct-push and hand-auger explorations. The soil samples were field screened for the presence of petroleum hydrocarbons using water sheen and headspace vapor testing. Field screening procedures are described in Appendix A. Field screening results are shown in Table 1 and on the boring logs presented in Appendix A. The soil samples were transferred to the required laboratory prepared containers after collection and stored in iced coolers for shipment to the analytical laboratory.

#### **5.1.2 Groundwater Sampling from Direct-Push and Hand Auger Explorations**

Groundwater samples were obtained from 21 direct-push and hand explorations using schedule 40 poly vinyl chloride (PVC) temporary well casing with slotted screen. For all sampling points a groundwater sample was collected from the top 5 feet of the water column. In addition, deeper water samples were collected from DP-2, DP-06, DP-07 and DP-11. At these four locations, a deep water sample was collected from a screened interval set at the bottom of the temporary sampling point.

The screened section of casing was purged of approximately 1 to 2 gallons of groundwater prior to sample collection using a peristaltic pump and polyethylene tubing. The groundwater samples were pumped into the required laboratory prepared containers during collection and stored in iced coolers for shipment to the analytical laboratory.

### **5.2 Soil Gas Assessment**

The purpose of the SGRSI was to evaluate the presence of VOCs in soil gas and to assess whether the VOCs in soil gas may pose unacceptable risks as a result of vapor intrusion to indoor air (under current or future land use scenarios).

GeoEngineers collected soil gas samples during the May 2012 sampling event using direct-push drilling equipment owned and operated by Pacific Soil and Water, LLC. A soil gas probe (SGP) was advanced at each location to a depth of approximately 5 feet bgs. Soil samples were not collected from the borings, thus, subsurface soil and groundwater conditions were not recorded on boring logs.

Three soil gas sample probes (SG-1 through SG-3) were advanced to depths of approximately 5 feet bgs at locations onsite on May 17, 2012. Three soil gas samples (including one duplicate sample) were collected from borings SG-1 through SG-3 and submitted for chemical analysis. Sample locations are shown on Figure 2.

GeoEngineers collected soil gas samples from the borings and submitted the samples to Pace Analytical for chemical analysis by EPA method TO-15 and helium. Soil gas sample collection procedures, including tracer gas testing, are described in Appendix A.



## 6.0 RESULTS

The following sections summarize the geological, hydrogeological and chemical analytical data collected during the SI.

### 6.1 Subsurface Conditions

#### 6.1.1 Soil Conditions

Subsurface soil observed during the SI generally consisted of a fine to medium sand mixed with construction debris and inter-bedded with gravel and concrete debris (indicating fill material). Fill material was primarily encountered between depths of 1 to 13 feet bgs. Native soils were primarily encountered at depths ranging from 8 to 11 feet bgs. Native material consisted of fine to medium sand. Gravel was also encountered in boring PD-11 to depths as great as 34 feet bgs.

In general, relatively consistent soil conditions were encountered across the site.

#### 6.1.2 Groundwater Conditions

GeoEngineers measured groundwater levels in the direct-push explorations at the time of their completion. The depth-to-water ranged between 11 and 15 feet bgs, relative to the existing street level elevation. The site gently slopes to the north towards the Columbia River. The groundwater flow direction is unknown but is inferred to flow to the north based on topography and the location of the Columbia River.

### 6.2 Soil Analytical Results

Twenty-two soil samples (including one duplicate sample), collected from explorations DP-01 through DP-19, HA-1 and HA-2 were submitted to the laboratory for analysis of gasoline-range petroleum hydrocarbons by Method NWTPH-Gx, diesel- and oil-range hydrocarbons by Method NWTPH-Dx with acid/silica gel cleanup and Resource Conservation and Recovery Act (RCRA 8) total metals (arsenic, barium, cadmium, chromium, lead, mercury, nickel, selenium and silver) by EPA Method 6010. Select soil samples were analyzed for VOCs by EPA Method 8260B, PAHs by EPA Method 8270C-SIM and PCBs by EPA Method 8082.

Soil field screening data and chemical analytical data are presented in Tables 1 through 5 and the location of the explorations is shown in Figure 2. A brief summary of soil chemical data is provided below.

- Gasoline-range hydrocarbons were detected in two soil samples (from DP-19 at 2.5 feet and the duplicate from this location) at concentration ranging from 5.2 to 13.5 milligrams per kilogram (mg/kg).
- Diesel-range hydrocarbons were detected in eight soil samples (including the duplicate). Diesel-range hydrocarbons were detected at concentrations ranging from 10.0 to 439 mg/kg.
- Oil-range hydrocarbons were detected in nine soil samples (including the duplicate). Oil-range hydrocarbons was detected at concentrations ranging from 38.4 to 3,400 mg/kg.

- Arsenic was detected in all 22 soil samples, including the duplicate. Arsenic was detected at concentrations ranging from 1.31 to 116 mg/kg.
- Barium was detected in all 22 soil samples, including the duplicate. Barium was detected at concentrations ranging from 19.7 to 939 mg/kg.
- Cadmium was detected in 21 soil samples, including the duplicate. Cadmium was detected at concentrations ranging from 0.0343 to 361 mg/kg.
- Chromium was detected in all 22 soil samples, including the duplicate. Chromium was detected at concentrations ranging from 8.2 to 50.7 mg/kg.
- Lead was detected in all 22 soil samples, including the duplicate. Lead was detected at concentrations ranging from 2.2 to 2,850 mg/kg.
- Selenium was detected in all 22 soil samples, including the duplicate. Selenium was detected at concentrations ranging from 0.29 to 2.4 mg/kg.
- Silver was detected in five soil samples, including the duplicate. Silver was detected at concentrations ranging from 0.191 to 0.512 mg/kg.
- Mercury was detected in 17 soil samples, including the duplicate. Mercury was detected at concentrations ranging from 0.053 to 5.3 mg/kg.
- Acetone was detected in six soil samples including the duplicate.
- Benzene was detected in one soil sample.
- 2-Butanone was detected in two soil samples including the duplicate.
- Bromomethane was detected in one soil sample.
- Tetrachloroethene was detected in three soil samples including the duplicate.
- Trichloroethene was detected in one soil sample.
- Several PAHs were detected in six of nine soil samples including the duplicate submitted for analysis.
- PCB Aroclor 1254 was detected in two of nine soil samples submitted for analysis.

### **6.3 Groundwater Analytical Results**

A total of 22 groundwater samples were collected by GeoEngineers (including one duplicate sample) were submitted for analysis of gasoline-range petroleum hydrocarbons by Method NWTPH-Gx, diesel- and oil-range petroleum hydrocarbons by Method NWTPH-Dx, and total metals (arsenic, barium, cadmium, chromium, lead, mercury, nickel, selenium, and silver) by EPA Method 6020.

Select samples were further analyzed for VOCs by EPA Method 8260B, dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, nickel, selenium, and silver) by EPA Method 6020, PAHs by EPA Method 8270C-SIM and PCBs by EPA Method 8082. Groundwater parameters (temperature, pH, conductivity, turbidity, dissolved oxygen and oxygen reduction potential) were collected during purging of select borings and are presented in Table 6. Groundwater chemical analytical data are presented in Tables 7 through 11.

A brief summary of the groundwater data is provided below.

- Gasoline-, diesel- and oil-range hydrocarbons were not detected in any of the groundwater samples submitted for analysis.
- Several metals (dissolved and total) were detected in all 22 groundwater samples including the duplicate sample.
- Several VOCs were detected in the six groundwater samples submitted for analysis including the duplicate sample.
- No PAH compounds were detected in the one sample and duplicate sample submitted for analysis.
- No PCB compounds were detected in the three samples and one duplicate sample submitted for analysis.

#### **6.4 Soil Gas Analytical Results**

A total of four soil gas samples (including one duplicate sample) were submitted for analysis of gasoline-range petroleum hydrocarbons and VOCs by EPA Method TO-15 and helium by ASTM Method D 1946. Soil gas chemical analytical data are presented in Table 12. A brief summary of the soil gas data is provided below.

- Gasoline-range hydrocarbons were detected in all four soil gas samples (including the duplicate sample) at concentrations ranging from 1,220 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ) to 8,810  $\mu\text{g}/\text{m}^3$ .
- Low level VOCs were detected in all soil gas samples.
- Helium was not detected in any of the soil gas samples above the method detection limit (MDL).

#### **6.5 Nature and Extent of Contamination**

##### **6.5.1 Soil**

Gasoline-, diesel-range petroleum hydrocarbons, VOCs, PAHs and metals are present in soil at the site. Detections of COI were present in shallow (<3 feet bgs) and deeper soils (>3 feet bgs). The highest detections were found in the soil in the northern half of the eastern parking lot.

##### **6.5.2 Groundwater**

VOCs and metals were detected in groundwater samples across the site. The highest detections were generally found in the groundwater samples collected in the northwest corner of the eastern parking lot.

##### **6.5.3 Soil Gas**

Gasoline-range petroleum hydrocarbons and VOCs were detected in all three soil gas samples as well as the duplicate sample. The detected concentrations of gasoline and VOCs did not exceed any of the potentially complete exposure pathways at the site.

## 6.6 Primary Sources of Contamination

The primary sources of contamination include potential releases from the former on-site heating oil USTs and ASTs, former automotive repair and paint shop, former dry-cleaning operations and former transformers. Off-site source may include the numerous HOTs located in the city ROW's in Astoria.

## 6.7 Contaminants of Interest

The COI for the site include chemicals that were detected in soil, soil gas and/or groundwater during the SI and previous investigations. The following COI have been detected in soil, groundwater, and soil gas samples and have subsequently been carried forward for risk screening.

### 6.7.1 Surface Soil

The following COI were identified in surface soil (less than 3 feet):

- Mixtures: Gasoline- and diesel-range petroleum hydrocarbons.
- Metals: arsenic, barium, cadmium, chromium, lead, selenium, silver and mercury.
- VOCs: 2-butanone, acetone, benzene, bromomethane, tetrachloroethene and trichloroethene.
- PAHs: 1-Methylnaphthalene, 2-methylnaphthalene, acenaphthylene, anthracene, benz[a]anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(ghi)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, naphthalene, phenanthrene and pyrene.
- PCBs: Aroclor 1254.

### 6.7.2 Subsurface Soil

The following COI were identified in subsurface soil (deeper than 3 feet):

- Mixtures: Diesel- and oil-range petroleum hydrocarbons.
- Metals: arsenic, barium, cadmium, chromium, lead, selenium, silver and mercury.

### 6.7.3 Groundwater

The following COI were identified in groundwater:

- Metals: arsenic, barium, cadmium, chromium, lead, selenium, silver and mercury.
- VOCs: 1,1-dichloroethene, 1,2,4-trimethylbenzene, 1,2-dichloroethane, benzene, carbon disulfide, Chloromethane, cis-1,2-dichloroethene, trans-1,2-Dichloroethene, ethylbenzene, isopropylbenzene (cumene), p-Isopropyltoluene, n-butylbenzene, n-propylbenzene, tetrachloroethene, toluene, total xylenes, trichloroethene, vinyl chloride, and m- and p-xylene.

#### **6.7.4 Soil Gas**

The following COI were identified in soil gas:

- Gasoline-range petroleum hydrocarbons
- VOCs: acetone, benzene, 2-butanone, 2-hexanone, 2-propanol, 4-ethyltoluene, 4-methyl-2-pentanone, carbon disulfide, ethylbenzene, n-heptane, n-hexane, naphthalene propylene, tetrahydrofuran, toluene, trichloroethene (TCE), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, tetrachloroethene, trichlorofluoromethane and total xylenes.

### **7.0 BENEFICIAL LAND AND WATER USE DETERMINATION**

The purpose of the BLWU determination is to document information regarding the current and reasonably likely future beneficial uses of land and water in the locality of facility (LOF). Beneficial use determinations provide the basis for the development of exposure scenarios discussed later in this section.

#### **7.1 Locality of the Facility**

The LOF is defined by DEQ as any point where a human or ecological receptor contacts or may reasonably likely come into contact with site-related hazardous substances. The LOF takes into account factors such as existing site conditions, regional and local hydrogeology and the likelihood of contaminants migrating over time.

The LOF is an estimated area and consists of shallow and deep soils, and groundwater at the site. The LOF may extend offsite into Duane and 12<sup>th</sup> street. Figure 2 shows the presumed lateral extent of the LOF.

#### **7.2 Land Use**

A zoning map of the property was obtained from the City of Astoria's web site that describes land uses at the site and surrounding properties. The site is zoned as Central Commercial Zone (C-4) which allows for a variety of commercial, retail and conditional residential uses. The Central Commercial zoning is designated to provide a focal point for retail trade, services, professional, financial and government activities. Urban residential uses are permitted only above or below the first floor with a commercial use on the first floor. Figure B-1 shows a representation of the land use map for the site and surrounding areas.

#### **7.3 Current and Reasonably Likely Future Land Use**

The determination of current and reasonably likely future land use was completed in general accordance with Oregon's cleanup rules (Oregon Administrative Rules [OAR] 340-122-080 (3)(e). This determination was completed by inspecting the site and by reviewing information obtained from the City of Astoria's website.

**Current Land Use:** Reasonably likely future land use at the site and site vicinity is consistent with current use (commercial use with the potential for urban residential use), based on information provided on the zoning map.

**Future Land Use:** Reasonably likely future land use at the site and site vicinity is consistent with current use (commercial use with potential urban residential).

**Beneficial Land Use Determination:** Land use within the assumed LOF is currently used for commercial purposes. Future land use within the assumed LOF is expected to remain consistent with current land use.

#### **7.4 Current and Reasonably Likely Beneficial Use of Water**

The determination of current and reasonably likely future beneficial water uses was completed in general accordance with DEQ guidance (1998a and 1998b). This determination was completed by review of water well logs and water rights information on file with the Oregon Water Resources Department (OWRD), review of U.S. Fish and Wildlife Service (FWS) wetland maps and a door-to-door survey in the vicinity of the site.

##### **7.4.1 Municipal Supply**

GeoEngineers reviewed available information located on the DEQ Oregon Drinking Water Protection Program website. The City of Astoria obtains water from three surface water sources (Bear Creek, Cedar Creek and Middle Lake) located approximately 10 miles southeast of the site in the Big Creek/Gnat Creek River Watershed in the Lower Columbia River Sub-Basin. The drinking water protection area around the water intakes include 8.3 stream miles, 13.8 acres of Wickiup Reservoir and encompasses a total area of 4.21 square miles.

The water is treated with a slow sand filter at the watershed and is transferred through a pipeline to Astoria where it is stored in two storage reservoirs (5 million and 20 million gallons) for the City. The City extracts as much as 98 million gallons of water per month during the summer and as little as 44 million gallons per month during the winter. The current system is considered adequate for current and future expansion of the City.

##### **7.4.2 Well Search**

Two groundwater wells were identified within a ½-mile radius of the site, based on a review of well logs filed with the OWRD. However, a review of the well logs (CLAT 287 and CLAT 292) indicated they were not water wells. The purpose of the installations were identified as being used for cathodic protection.

GeoEngineers conducted a door-to-door well search of businesses and residences at the adjacent properties on May 18, 2012. GeoEngineers either interviewed or left a survey letter at each property. GeoEngineers interviewed the property owners in an effort to determine if groundwater wells were present at these properties. No wells were identified during the door-to-door well survey and no surveys were returned.

##### **7.4.3 Water Rights**

No surface water points of diversion (PODs) are on file with the OWRD within ½-mile of the site.

#### 7.4.4 Surface Water

The FWS's National Wetland Inventory indicates that the nearest water body is the Columbia River, located approximately 800 feet north of the site. Figure B-2 shows the wetland inventory map. None of the surface water features are located within the presumed LOF.

#### 7.4.5 Beneficial Water Use Determination

GeoEngineers reviewed OWRD well logs and water rights information, conducted interviews with City personnel and conducted a door-to-door survey of the site vicinity. The following is a summary of findings:

- Future groundwater development within the LOF and near vicinity is unlikely due to a readily available municipal water source;
- The door-to-door well search did not reveal any wells with the presume LOF; and
- There are no wetlands or surface water bodies within the presumed LOF.

Based on these findings, there is no current beneficial use of groundwater within the LOF. There is no surface water use within the presumed LOF.

A summary of the beneficial water use determination is presented below:

Beneficial Water Use	Current Use?	Future Use?	Justification
Drinking Water	N	N	A municipal water supply is readily available and there are currently no water wells within ½ mile of the site.
Irrigation	N	N	The site and site vicinity is heavily developed with commercial, government and retail buildings.
Industrial	N	N	The site and vicinity are not currently zoned to allow industrial uses. No land use changes are expected.
Engineering	N	N	The site and vicinity are not currently zoned to allow industrial uses. No land use changes are expected.
Recreation	N	N	No surface water bodies are within the presumed LOF.
Surface Water Recharge, Fish and Aquatic Life	Y	Y	A release of COI from the site has the potential to migrate to the Columbia River, impacting surface water, fish and aquatic life.

#### 7.5 Exposure Pathway Analysis

The following elements comprise a potentially complete pathway: 1) a chemical source; 2) a mechanism of chemical release to the environment; 3) an environmental transport medium; 4) an exposure point where contact between the contaminated medium and the receptor occurs; and 5) an exposure route at the exposure point. An evaluation of potential receptors and exposure pathways is discussed below and is shown in the CSM in Figure 3.

### **7.5.1 Potential Human Receptors**

Potential receptors are those individuals that may be exposed to COI under the current and reasonably likely future land-use scenarios. Land-use considerations are key for determining the types of people likely to be exposed to site contaminants. As described previously, current land use zoning within the LOF is Central Commercial, which allows commercial, retail and conditional residential uses. The Central Commercial zoning is designated to provide a focal point for retail trade, services, professional, financial and government activities. Residential uses are permitted only above or below the first floor with a commercial use on the first floor. As such, residential receptors are included. The following current and future potential receptors were identified for the risk-based screening:

- Adults and children in an urban residential scenario;
- Adults and children in a park user scenario;
- Adults in an occupational scenario;
- Adults in a construction scenario; and
- Adults in an excavation worker scenario.

### **7.5.2 Potential Ecological Receptors**

Ecological receptors are not anticipated because ecologically valuable habitat is not present within the presumed LOF. However, due to the proximity of the Columbia River we have included ecological SLVs for potential exposure through groundwater migration.

### **7.5.3 Exposure Pathways for Soil**

The following is a summary of the potential exposure pathways for soil (summarized in Figure 4).

**Soil Ingestion, Dermal Contact and Inhalation:** These exposure pathways are considered potentially complete for urban residential, park user, occupational, construction and excavation worker receptors.

**Volatilization to Outdoor Air:** This pathway is considered potentially complete for urban residential, park user and occupational receptors.

**Vapor Intrusion into Buildings:** This pathway is considered potentially complete for urban residential and occupational receptors.

**Leaching to Groundwater:** This pathway is considered incomplete for human receptors due to the lack of beneficial uses of groundwater at the site and site vicinity. This pathway is considered complete for leaching to groundwater related to ecological receptors.

### **7.5.4 Exposure Pathways for Groundwater**

The following is a summary of each of the exposure pathways for groundwater.



**Volatilization to Outdoor Air:** This pathway is considered potentially complete for urban residential, park user and occupational receptors.

**Vapor Intrusion into Buildings:** This pathway is considered potentially complete for urban residential, park user and occupational workers.

**Ingestion and Inhalation:** This pathway is not considered complete for human receptors due to the lack of beneficial water use in the presumed LOF but is considered complete for ecological receptors.

**Groundwater in Excavation:** This pathway is considered potentially complete for excavation and construction workers.

## **8.0 RISK-BASED SCREENING**

Section 6.0 presented a discussion of the COI identified for the risk-based screening assessment. GeoEngineers compared the maximum concentrations of detected COI to the DEQ's RBCs (2012) for applicable exposure pathways (Tables 1 through 5 and 7 through 12). Included in the tables are the Level II ecological SLVs and bioaccumulation values for reference only. A summary of COI that exceed applicable RBCs is presented below.

### **8.1 Soil**

- The concentrations of arsenic in soil sample DP10-10, DP11-3 and DP19-2.5 exceeds the state of Oregon default background concentration for arsenic (7 mg/kg) and the RBC for surface soil ingestion, dermal contact and inhalation for urban residential, occupational, park user and construction worker receptors. However, soil sample DP10-10 was collected at 10 feet bgs and DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentration of arsenic in soil sample DP05-2 and DP08-10 exceeds the state of Oregon default background concentration for arsenic (7 mg/kg) and the RBC for surface soil ingestion, dermal contact and inhalation for urban residential, occupational, and park user receptors. However, soil sample DP08-10 was collected at 10 feet bgs. The concentrations of lead in soil sample DP16-3, DP19-2.5 and SOILDUP3 (duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for urban residential, occupational, park user, construction worker and excavation worker receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentration of benzo(a)anthracene in soil sample SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for urban residential receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentrations of benzo(a)pyrene in soil samples DP13-2, DP19-2.5, SOILDUP3 (the duplicate sample of DP19-2.5) and DP07-2 exceeds the RBC for surface soil ingestion,

dermal contact and inhalation for urban residential receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.

- The concentrations of benzo(a)pyrene in soil samples DP19-2.5 and SOILDUP3 (the duplicate sample of DP19-2.5) also exceeds the RBC for surface soil ingestion, dermal contact and inhalation for park user and occupational receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentration of benzo(a)pyrene in soil sample SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for construction worker receptors.
- The concentration of benzo(b)fluoranthene in soil sample SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for urban residential and park user receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentration of dibenzo(a,h)anthracene in soil sample SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for urban residential, park user and occupational receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.
- The concentrations of indeno(1,2,3-cd)pyrene in soil sample DP19-2.5 and SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for urban residential receptors. The concentration of indeno(1,2,3-cd)pyrene in soil sample SOILDUP3 (the duplicate sample of DP19-2.5) exceeds the RBC for surface soil ingestion, dermal contact and inhalation for park user receptors. However, soil sample DP-19-2.5 was collected in the basement area below the parking structure. This sample was collected approximately 10.5 feet below street level.

## 8.2 Groundwater

- The concentrations of detected analytes did not exceed any of the RBCs for the potentially complete exposure pathways for human health.
- The concentration of barium in all 27 groundwater samples exceeds the ecological SLV for aquatic receptors. The barium exceedances included both total and dissolved groundwater samples.
- The concentration of total chromium in the groundwater sample from DP-6 exceeds the ecological SLV for aquatic receptors. The concentration of dissolved chromium (five samples analyzed) did not exceed SLVs for aquatic receptors.
- The concentrations of total lead in 16 of the 27 groundwater samples exceed the ecological SLV for aquatic receptors. The concentrations of dissolved lead (five samples analyzed) did not exceed SLVs for aquatic receptors.

- The concentrations of total silver in 4 of the 23 groundwater samples exceed the ecological SLV for aquatic receptors. The concentration of dissolved silver in 2 of the 5 filtered groundwater samples exceed the ecological SLV for aquatic receptors.

### **8.3 Soil Gas**

- The concentrations of detected analytes did not exceed any of the RBCs for the potentially complete exposure pathways.

## **9.0 DISCUSSION OF RESULTS AND RECOMMENDATIONS**

In general, the RBC exceedances in soil are primarily located in the northwest corner of the eastern elevated parking area. The soils in the vicinity of DP-19 appear to contain elevated concentrations of arsenic, lead and various PAHs. Elevated concentrations of PAHs were detected in the soil sample from DP-13. Elevated concentrations of arsenic were detected in DP-10 and DP-11 and an elevated concentration of lead were also detected in DP-16.

The concentrations of contaminants in the groundwater samples collected during the 2012 did not exceed any DEQ RBCs. The highest concentration of COI were generally found in the northwest corner of the eastern parking area (in the vicinity of DP-19).

Concentrations of total barium, chromium, lead and silver exceeded their respective SLVs for aquatic receptors, but it is unlikely that the detected concentrations would have an influence on the Columbia River. Only dissolved barium and silver were detected in the filtered groundwater samples at concentrations above SLVs for aquatic receptors. The recorded turbidity numbers for unfiltered metals was generally high. It is likely that the SLV exceedances for total metal concentrations is due to the turbidity (soil particles) in the unfiltered groundwater samples.

In general, the highest detections of COI in both soil and groundwater were generally in the vicinity of the northwest corner of the east parking lot (near DP-19).

A number of the preliminary and final analytical results were flagged as having blank contamination (noted as a B in the summary tables). The blank contamination was prevalent in both soil and groundwater metal and VOC results for groundwater. Based on our conversations with Pace Analytical, it is unclear why blank contamination was common in these analytical tests. In some cases, the detected concentration of analyte was 10 times the blank concentration, which suggests that the analytical results are valid, but COI were found in a number of blanks. As such, all samples flagged with a B (for blank contamination) should be considered an estimate and are most likely biased high.

## **10.0 SUMMARY AND CONCLUSIONS**

GeoEngineers completed SI activities at the Heritage Square site for DEQ. GeoEngineers observed the completion of 21 soil explorations and three soil gas explorations using direct-

push drilling and hand auger techniques. GeoEngineers completed a BLWU determination and CSM.

Metals, PCBs, gasoline-, diesel- and oil-range hydrocarbons, and associated constituents, have been detected in soil and/or groundwater at the site. Adults and children in an urban residential scenario, adults and children in a park user scenario, and adults in an occupational and construction or excavation worker scenarios were identified as potential current or future receptors.

The following provides a summary of the SI findings:

- The highest detections of COI in both soil and groundwater were generally in the vicinity of the northwest corner of the east parking lot.
- COI in groundwater and soil-gas did not exceed the RBCs for the potentially complete exposure pathways at the site.

## **11.0 RECOMMENDATIONS**

GeoEngineers recommends the following for the Heritage Square Site.

- Evaluate if the placement of a deed restriction on the property limiting the future development of the site for urban residential purposes is warranted.
- Consider the development of a contaminated media management plan (CMMP) to mitigate future construction worker risks at the site. In addition, the CMMP will assist in determining the proper disposition of site soils and water encountered during future construction activities, and will be required by DEQ prior to site redevelopment activities.
- Additional soil and/or groundwater assessment or potential removal of soils may be warranted in the northwest corner of the parking structure. Soils in the vicinity of DP-13, DP-16, DP-19, SS-2 and SS-7 contain the highest concentrations of site COI. The extent of the LOF in the northeast corner of the site (intersection of Duane Street and 12<sup>th</sup> Street) has not been fully defined. The most easterly explorations (DP-13 and DP-16) contained COI. As such, additional explorations along the eastern side of 12<sup>th</sup> Street may be warranted. These additional borings would provide the easterly extent of the LOF.
- The concentration of arsenic in soils in DP10-10 and DP11-3 exceed the excavation and construction worker RBC for direct contact. Additional assessment may be warranted to define the extent of elevated arsenic concentrations. However, it is likely that the potential exposure of arsenic to excavation and construction workers can be mitigated through the proposed CMMP.
- Future evaluation of potential groundwater flow to the Columbia River may be warranted.

## 12.0 LIMITATIONS

We have prepared this report for the exclusive use of DEQ and the City of Astoria. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

Within the limitations of scope, schedule and budget, our services have been executed in accordance with generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

Any electronic form, facsimile or hard copy of the original document (email, text, table, and/or figure), if provided, and any attachments are only a copy of the original document. The original document is stored by GeoEngineers, Inc. and will serve as the official document of record.

## 13.0 REFERENCES

City of Astoria Land Uses Development and Planning Department website, <http://www.astoria.or.us/Codes/DevelopmentZoning/tabid/4040/language/en-US/Default.aspx>, Accessed June 18, 2012.

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\_\_\_\_Tank Decommissioning Report, Safeway Property. December 17, 2003d.

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Oregon Department of Environmental Quality, Guidance for Conducting Beneficial Water Use Determinations at Environmental Cleanup Sites, 1998a.

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\_\_\_\_Water Quality, Oregon Drinking Water Protection Program, <http://www.deq.state.or.us/wg/dwp/swrpts.asp>, accessed June 18, 2012.

**TABLE 1**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**PETROLEUM HYDROCARBONS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample depth <sup>2</sup> (feet bgs)	Field Screening Results <sup>3</sup>		Gasoline-Range Hydrocarbons (Northwest Method NWTPH-Gx) (mg/kg)	Diesel- and Oil-Range Hydrocarbons (Northwest Method NWTPH-Dx) (mg/kg)	
			Headspace Vapor (ppm)	Sheen	Gasoline	Diesel	Oil
DP01-1.5	5/15/2012	1.5	1.5	NS	<2.5	<8.7	<35.0
DP02-15	5/16/2012	15	<1	NS	<2.9	<8.4	<33.7
DP03-10	5/16/2012	10	<1	NS	<3.3	<8.5	<34.1
DP04-3	5/16/2012	3	<1	NS	<5.4	<10.1	<40.5
DP05-2	5/17/2012	2	1.7	NS	<5.3	<10.9	<43.7
DP06-3	5/15/2012	3	3	NS	<3.3	<b>10.0 J</b>	<33.8
DP07-2	5/15/2012	2	<1	NS	<3.4	<b>27.5</b>	<b>163</b>
DP08-10	5/15/2012	10	<1	NS	<4.5	<11.3	<45.1
DP09-2	5/15/2012	2	<1	NS	<3.3	<b>28.5</b>	<b>260</b>
DP10-10	5/16/2012	10	2.9	NS	<4.0	<10.5	<42.1
DP11-3	5/16/2012	3	2.3	NS	<10.5	<11.8	<47.2
DP12-1.5	5/17/2012	9.5	3.5	NS	<2.4	<8.2	<32.8
DP13-2	5/17/2012	10	<1	NS	<5.0	<b>102</b>	<b>887</b>
DP14-2.5	5/17/2012	11	<1	NS	<3.5	<b>36.1</b>	<b>313</b>
DP15-1.5	5/17/2012	9.5	<1	NS	<3.9	<8.0	<b>71.8</b>
DP16-3	5/17/2012	10.25	3.9	NS	<4.5	<8.5	<b>38.4 J</b>
DP17-1.5	5/17/2012	9.5	2.5	NS	<3.4	<b>26.2</b>	<b>199</b>
DP18-1.5	5/17/2012	9.5	2.8	NS	<5.8	<10.6	<42.3
DP19-2.5	5/17/2012	10.25	3.5	NS	<b>13.5 J</b>	<b>216</b>	<b>1,450</b>
SOILDUP3				NS	<b>5.2 J</b>	<b>439</b>	<b>3,400</b>
HA1-2	5/16/2012	10	<1	NS	<4.4	<10.8	<43.0
HA2-1	5/16/2012	9	<1	NS	<4.3	<9.1	<36.4
<b>DEQ Generic Risk-Based Concentrations<sup>4</sup></b>							
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>							
Urban Residential					2,500	2,200	*
Occupational					20,000	14,000	*
Construction Worker					9,700	4,600	*
Excavation Worker					*	*	*
<b>Volatilization to Outdoor Air</b>							
Urban Residential					5,900	*	*
Occupational					69,000	*	*
<b>Vapor Intrusion into Buildings</b>							
Urban Residential					94	*	*
Occupational					*	*	*

**Notes:**

- <sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.
- <sup>2</sup>Sample depth referenced to street level elevation.
- <sup>3</sup>See Appendix A for a description of the field screening methods and a description of the sheen classifications used for this project. NS = no sheen.
- <sup>4</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.
- \*This RBC is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.
- bgs = below ground surface
- mg/kg = milligrams per kilogram
- ppm = parts per million
- J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.
- "<" indicates analyte not detected above the method reporting limit.
- Bold indicates analyte detection.

**TABLE 2**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**METALS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample depth <sup>2</sup> (feet bgs)	Total Metals (EPA Method 6020) (mg/kg)							
			Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
DP01-1.5	5/15/2012	1.5	2.1	19.7	<0.023	15.6	2.5 B	0.43 J	<0.18	<0.0024
DP02-15	5/16/2012	15	2.6	58.8	0.043 J	10.4	107	0.35 J	<0.19	0.0060 J
DP03-10	5/16/2012	10	1.8	47.5	0.040 J	9.4	13.5 B	0.34 J	0.27 J B	<0.0021
DP04-3	5/16/2012	3	3	43.3	0.039 J	10.8	94.1 B	0.29 J	<0.19	<0.0020
DP05-2	5/17/2012	2	8.48	108	0.122	32.7	14.9 B	1.64	<0.225	0.080 J
DP06-3	5/15/2012	3	3.2	65.5	1.6	14.8	27.1 B	0.48	<0.16	<0.0019
DP07-2	5/15/2012	2	4.4	174	0.51	17	183 B	0.59	<0.18	<0.0023
DP08-10	5/15/2012	10	10.4	79.2	0.14	43.5	15.1 B	1.9	<0.20	0.085 J
DP09-2	5/15/2012	2	2.1	61.8	0.19	11.1	85.3 B	0.72	<0.21	0.046 J
DP10-10	5/16/2012	10	15.3	164	0.32	32.1	15.4	2	<0.25	0.072 J
DP11-3	5/16/2012	3	19.7	55.9	0.067 J	47.8	24.9	2.4	<0.28	0.028 J
DP12-1.5	5/17/2012	9.5	1.31	112	0.527	8.2	201 B	0.396 J	0.191 J B	0.0060 J
DP13-2	5/17/2012	10	2.79	299	0.371	12	313 B	0.482 J	<0.190	0.053 J
DP14-2.5	5/17/2012	11	1.38	63.6	0.242	10.1	57.2 B	0.360 J	<0.138	0.040 J
DP15-1.5	5/17/2012	9.5	1.5	59.8	0.276	8.87	33.3 B	0.442 J	0.205 B J	0.019 J
DP16-3	5/17/2012	10.25	3.8	116	0.318	17.2	1,930 B	0.448	<0.161	0.042 J
DP17-1.5	5/17/2012	9.5	2.86	159	361	15.1	183 B	0.678	<0.167	0.093
DP18-1.5	5/17/2012	9.5	1.47	42.5	0.0343 J	10.9	7 B	0.448 J	<0.182	0.0099 J
DP19-2.5	5/17/2012	10.25	116	539	24.2	50.7	2,850 B	1.31	0.512 J B	5.3
SOILDUP3			4.28	939	13.7	32.2	2,790 B	0.949	0.421 J B	3.3
HA1-2	5/16/2012	10	2.5	58.2	0.045 J	10.5	2.2	0.33 J	<0.23	0.0053 J
HA2-1	5/16/2012	9	4.1	104	0.070 J	11.6	19.4	0.54 J	<0.22	0.070 J
<b>DEQ Generic Risk-Based Concentrations<sup>3</sup></b>										
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>										
Urban Residential			1.0	31,000	78	230,000	400	*	780	47
Occupational			1.7	190,000	500	*	800	*	5,100	310
Park User <sup>4</sup>			6.4	-	-	-	-	-	-	-
Construction Worker			13	60,000	150	460,000	800	*	1,500	93
Excavation Worker			370	*	4,300	*	800	*	43,000	2,600
<b>Volatilization to Outdoor Air</b>										
Urban Residential			*	*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*	*
<b>Vapor Intrusion into Buildings</b>										
Urban Residential			*	*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*	*
<b>Level II Ecological Screening Level Values<sup>5</sup></b>										
Birds			10	85	6	4	16	2	*	1.5
Inverts			60	3,000	20	0.4	500	70	50	0.1
Mammals			29	638	125	410	4,000	25	*	73
Plants			10	500	4	1	50	1	2	0.3
<b>Bioaccumulation Values<sup>6</sup></b>										
Birds Individual			7	*	1	*	17	2	*	0.07
Birds Population			7	*	1	*	17	2	*	0.07
Background			7	*	1	*	17	2	*	0.07
Fish Individual			7	*	1	*	17	2	*	0.07
Fish Population			7	*	1	*	17	2	*	0.07
Human General			7	*	1	*	17	2	*	0.07
Human Subsistence			7	*	1	*	17	2	*	0.07
Mammal Individual			7	*	1	*	17	2	*	0.07
Mammal Population			7	*	1	*	17	2	*	0.07
<b>State of Oregon Default Background Concentrations</b>										
Background			7	*	1	42	17	2	1	0.07

**Notes:**

- <sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.
- <sup>2</sup>Sample depth referenced to street level elevation.
- <sup>3</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.
- <sup>4</sup>Park User RBC was calculated using a 28-day per year exposure (instead of the default value of 175 days per year).
- <sup>5</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values.
- <sup>6</sup>Oregon Department of Environmental Quality Bioaccumulation Values for Sediments.
- \*This value is either: 1) not established; 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.
- EPA = U.S. Environmental Protection Agency
- RBC = Risk-based Concentration
- DEQ = Oregon Department of Environmental Quality
- mg/kg = milligrams per kilogram
- J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.
- B = compound detected in associated laboratory blank.
- <50 indicates analyte not detected above the method reporting limit.
- Shading indicates concentration exceeds State default background concentration and one or more of the DEQ's RBCs for complete exposure pathways.
- Bold indicates analyte detection.

**TABLE 3**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample depth <sup>2</sup> (feet bgs)	Volatile Organic Compounds (EPA Method 8260B) (mg/kg)																							
			1,1,1,1,2-Tetrachloroethane	1,1,1,1-Trichloroethane	1,1,1,2,2-Tetrachloroethane	1,1,1,2-Trichloroethane	1,1,1,2-Trichlorotrifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethene	1,2-Dichloroethene (Total)	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene		
DP07-2	5/15/2012	2	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0033	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017		
DP09-2	5/15/2012	2	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0033	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016		
DP13-2	5/17/2012	10	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0052	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026		
DP14-2.5	5/17/2012	11	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0038	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019		
DP15-1.5	5/17/2012	9.5	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0152	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076		
DP17-1.5	5/17/2012	9.5	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0042	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021		
DP19-2.5	5/17/2012	10.25	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0049	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
SOIL DUP3			<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0091	<0.0046	<0.0046	<0.0046	<0.0046		
<b>Applicable DEQ Risk-Based Concentrations<sup>3</sup></b>																										
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>																										
Urban Residential	*	110,000	*	19,000	800,000	31,000	3,500	*	*	*	*	220	*	0.53	4,400	*	*	*	1,600	*	*	*	62			
Occupational	*	830,000	*	25	*	200,000	27,000	*	*	*	*	2,000	*	0.68	35,000	*	*	*	10,000	*	*	*	63			
Construction Worker	*	430,000	*	290	*	62,000	12,000	*	*	*	*	2,000	*	8.1	19,000	*	*	*	3,100	*	*	*	1,200			
Excavation Worker	*	*	*	8,100	*	*	340,000	*	*	*	*	54,000	*	230	520,000	*	*	*	86,000	*	*	*	34,000			
<b>Volatilization to Outdoor Air</b>																										
Urban Residential	*	*	*	13	*	*	*	*	*	*	*	230	*	0.35	*	*	*	*	*	*	*	*	19			
Occupational	*	*	*	24	*	*	*	*	*	*	*	1,000	*	0.65	*	*	*	*	*	*	*	*	36			
<b>Vapor Intrusion into Buildings</b>																										
Urban Residential	*	*	*	0.49	*	*	54	*	*	*	*	82	*	0.03	*	*	*	*	*	*	*	*	3			
Occupational	*	*	*	2.7	*	*	680	*	*	*	*	1,000	*	0.14	*	*	*	*	*	*	*	*	17			
<b>Level II Ecological Screening Level Values<sup>4</sup></b>																										
Birds	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*			
Inverts	*	*	*	*	*	*	*	20	*	20	*	*	*	*	*	*	*	700	*	*	*	*				
Mammals	*	55,550	*	*	*	*	3,750	*	*	*	*	*	*	*	*	2,500	2,500	*	*	*	*	*				
Plants	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*				



**TABLE 3**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample depth <sup>2</sup> (feet bgs)	Volatile Organic Compounds (EPA Method 8260B) (mg/kg)																							
			2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	
DP07-2	5/15/2012	2	<0.0017	<0.0055	<0.0017	<0.0055	<0.0017	<0.0055	<0.0055	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	
DP09-2	5/15/2012	2	<0.0016	<0.0055	<0.0016	<0.0055	<0.0016	<0.0055	<0.0055	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	
DP13-2	5/17/2012	10	<0.0026	<0.0086	<0.0026	<0.0086	<0.0026	<0.0086	<b>0.0239</b>	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	
DP14-2.5	5/17/2012	11	<0.0019	<0.0063	<0.0019	<0.0063	<0.0019	<0.0063	<b>0.124</b>	<b>0.0020 J</b>	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	
DP15-1.5	5/17/2012	9.5	<0.0076	<0.0253	<0.0076	<0.0253	<0.0076	<0.0253	<b>0.174</b>	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	
DP17-1.5	5/17/2012	9.5	<0.0021	<0.0070	<0.0021	<0.0070	<0.0021	<0.0070	<b>0.0117 J</b>	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	
DP19-2.5	5/17/2012	10.25	<0.0025	<b>0.0358</b>	<0.0025	<0.0082	<0.0025	<0.0082	<b>0.253</b>	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<b>0.0031 J</b>	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
SOIL DUP3			<0.0046	<b>0.0436</b>	<0.0046	<0.0152	<0.0046	<0.0152	<b>0.321</b>	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	
<b>Applicable DEQ Risk-Based Concentrations<sup>3</sup></b>																										
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>																										
Urban Residential			*	*	*	*	*	*	*	24	*	*	12	170	92	*	20	1,100	320,000	22	2,900	310	*	12	*	
Occupational			*	*	*	*	*	*	*	34	*	*	15	240	710	*	31	8,300	*	25	25,000	2,000	*	16	*	
Construction Worker			*	*	*	*	*	*	*	340	*	*	210	2,400	330	*	280	4,300	*	380	25,000	620	*	190	*	
Excavation Worker			*	*	*	*	*	*	*	9,500	*	*	5,800	66,000	9,200	*	7,900	120,000	*	11,000	700,000	17,000	*	5,300	*	
<b>Volatilization to Outdoor Air</b>																										
Urban Residential			*	*	*	*	*	*	*	27	*	*	5.7	190	170	*	35	*	*	9.2	*	*	*	7.8	*	
Occupational			*	*	*	*	*	*	*	50	*	*	11	550	700	*	65	*	*	17	*	*	*	14	*	
<b>Vapor Intrusion into Buildings</b>																										
Urban Residential			*	*	*	*	*	*	*	0.220	*	*	0.35	99	1.3	*	0.28	59	*	0.074	24	*	*	1.6	*	
Occupational			*	*	*	*	*	*	*	1.2	*	*	1.9	550	17	*	1.60	*	*	0.41	300	*	*	9	*	
<b>Level II Ecological Screening Level Values<sup>4</sup></b>																										
Birds			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	
Inverts			*	*	*	*	*	*	*	*	*	*	*	*	*	*	1,000	40	*	*	*	*	*	*	*	
Mammals			*	200,000	*	*	*	*	*	1,250	3,300	*	*	*	*	*	2,000	*	*	1,875	*	2,500	*	*	*	
Plants			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	

**TABLE 3**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample depth <sup>2</sup> (feet bgs)	Volatile Organic Compounds (EPA Method 8260B) (mg/kg)																								
			Dichlorodifluoromethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene (Cumene)	m&p-Xylene	Methylene Chloride	Methyl t-butyl ether	Naphthalene	n-Butylbenzene	n-Propylbenzene	Xylene, o-	p-Isopropyltoluene	Sec-Butylbenzene	Styrene	tert-Amyl methyl ether	Tert-Butylbenzene	Tetrachloroethene	Toluene	Trans-1,2-Dichloroethene	Trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Total Xylenes	
DP07-2	5/15/2012	2	<0.0017	<0.0017	<0.0017	<0.0017	<0.0033	<0.0055	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0017	<0.0050	
DP09-2	5/15/2012	2	<0.0016	<0.0016	<0.0016	<0.0016	<0.0033	<0.0055	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016	<0.0049	
DP13-2	5/17/2012	10	<0.0026	<0.0026	<0.0026	<0.0026	<0.0052	<0.0086	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0026	<0.0077	
DP14-2.5	5/17/2012	11	<0.0019	<0.0019	<0.0019	<0.0019	<0.0038	<0.0063	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0019	<0.0057	
DP15-1.5	5/17/2012	9.5	<0.0076	<0.0076	<0.0076	<0.0076	<0.0152	<0.0253	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0076	<0.0227	
DP17-1.5	5/17/2012	9.5	<0.0021	<0.0021	<0.0021	<0.0021	<0.0042	<0.0070	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0021	<0.0063	
DP19-2.5	5/17/2012	10.25	<0.0025	<0.0025	<0.0025	<0.0025	<0.0049	<0.0082	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	<0.0074	
SOIL DUP3			<0.0046	<0.0046	<0.0046	<0.0046	<0.0091	<0.0152	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.0137	
<b>Applicable DEQ Risk-Based Concentrations<sup>3</sup></b>																											
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>																											
Urban Residential			*	110	*	7,000	*	200	720	25	*	*	*	*	*	16,000	*	*	540	12,000	1,200	*	17	*	0.8	2,900	
Occupational			*	140	*	53,000	*	310	1,000	23	*	*	*	*	*	120,000	*	*	940	77,000	9,200	*	46	*	3.9	25,000	
Construction Worker			*	1,600	*	24,000	*	2,700	10,000	580	*	*	*	*	*	51,000	*	*	1,600	24,000	4,500	*	420	*	30	19,000	
Excavation Worker			*	44,000	*	670,000	*	75,000	290,000	16,000	*	*	*	*	*	*	*	*	44,000	680,000	130,000	*	12,000	*	830	540,000	
<b>Volatilization to Outdoor Air</b>																											
Urban Residential			*	85	*	*	*	450	810	18	*	*	*	*	*	*	*	*	*	*	2,000	*	33	*	6.5	*	
Occupational			*	160	*	*	*	830	1,500	99	*	*	*	*	*	*	*	*	*	*	*	*	96	*	89	*	
<b>Vapor Intrusion into Buildings</b>																											
Urban Residential			*	2.2	*	*	*	3.6	13	18	*	*	*	*	*	*	*	*	*	6.6	*	16	*	0.32	*	0.05	100
Occupational			*	12	*	*	*	20	74	99	*	*	*	*	*	*	*	*	*	36	*	200	*	2.8	*	2.2	*
<b>Level II Ecological Screening Level Values<sup>4</sup></b>																											
Birds			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Inverts			*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Mammals			*	*	*	*	*	730	*	3,900	*	*	*	*	*	*	*	*	*	80	1,440	2,500	*	40	*	20	120
Plants			*	*	*	*	*	*	*	10	*	*	*	*	*	300	*	*	*	10	200	*	*	*	*	*	100

**Notes**

- <sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.
- <sup>2</sup>Sample depth referenced to street level elevation.
- <sup>3</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.
- <sup>4</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values
- \*This value is either: 1) not established; 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.
- EPA = U.S. Environmental Protection Agency
- RBC = Risk-based concentration
- DEQ = Oregon Department of Environmental Quality
- mg/kg = milligrams per kilogram
- bgs = below ground surface
- J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.
- <0.0025 indicates analyte not detected above the method reporting limit.
- Bold indicates analyte detection.

**TABLE 4**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**SEMIVOLATILE ORGANIC HYDROCARBONS**  
 HERITAGE SQUARE - SITE INVESTIGATION  
 ASTORIA, OREGON

Sample Identification	Date Sampled	Depth of Sample <sup>2</sup> (bgs)	Semivolatile Organic Compounds (EPA Method 8270) (mg/kg)																	
			1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[ghi]perylene	Benzo[k]fluoranthene	Chrysene	Dibenzo[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene
DP05-15	5/17/2012	15	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067	<0.0067
DP07-2	5/15/2012	2	<0.0077	<0.0077	<0.0077	<b>0.0137</b>	<0.0077	<b>0.0379</b>	<b>0.0335</b>	<b>0.049</b>	<b>0.0221</b>	<b>0.0172</b>	<b>0.0273</b>	<0.0077	<b>0.0493</b>	<0.0077	<b>0.0204</b>	<0.0077	<b>0.015</b>	<b>0.0531</b>
DP09-2	5/15/2012	2	<0.0079	<0.0079	<0.0079	<0.0079	<0.0079	<0.0079	<b>0.0245</b>	<b>0.0156</b>	<b>0.0124</b>	<0.0079	<b>0.0153</b>	<0.0079	<b>0.0098</b>	<0.0079	<0.0079	<0.0079	<b>0.0082</b>	<b>0.0135</b>
DP13-2	5/17/2012	10	<0.0090	<b>0.0170 B</b>	<0.0090	<b>0.037</b>	<b>0.0408</b>	<b>0.0534</b>	<b>0.0713</b>	<b>0.0711</b>	<b>0.0427</b>	0.045	<b>0.0664</b>	<b>0.0117</b>	<b>0.0947</b>	<0.0090	<b>0.0449</b>	<b>0.0440 B</b>	<b>0.103</b>	<b>0.0694</b>
DP14-2.5	5/17/2012	11	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711	<0.0711
DP15-1.5	5/17/2012	9.5	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<b>0.0087</b>	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071	<0.0071
DP17-1.5	5/17/2012	9.5	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695	<0.0695
DP19-2.5	5/17/2012	10.25	<0.117	<b>0.126</b>	<0.117	<b>0.169</b>	0.12	<b>0.125</b>	<b>0.369</b>	<b>0.295</b>	<b>0.688</b>	<b>0.159</b>	<b>0.16</b>	<0.117	<b>0.149</b>	<0.117	<b>0.543</b>	<b>0.268</b>	<0.117	<b>0.226</b>
SOILDUP3			<b>0.0932</b>	<b>0.334</b>	<0.0837	<b>0.86</b>	0.666	<b>0.72</b>	<b>2.4</b>	<b>2.1</b>	<b>2.86</b>	<b>0.608</b>	<b>0.963</b>	<b>0.341</b>	<b>0.848</b>	<0.0837	<b>2.23</b>	<b>0.494</b>	<b>0.624</b>	<b>1.04</b>
<b>Applicable DEQ Risk-Based Concentrations<sup>3</sup></b>																				
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>																				
Urban Residential	*	*	9,400	*	47,000	0.34	0.03	0.34	*	3.4	32	0.03	4,600	6,300	0.3	25	*	3,400		
Park User	--	--	--	--	--	2.1	0.21	2.1	--	--	--	0.21	--	--	2.1	--	--	--		
Occupational	*	*	61,000	*	310,000	2.7	0.27	2.7	*	27	250	0.27	29,000	41,000	2.7	23	*	21,000		
Construction Worker	*	*	19,000	*	93,000	21	2.1	21	*	210	2,100	2.1	8,900	12,000	21	580	*	6,700		
Excavation Worker	*	*	520,000	*	*	590	59	590	*	5,900	57,000	59	250,000	340,000	590	16,000	*	190,000		
<b>Volatilization to Outdoor Air</b>																				
Urban Residential	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18	*	*		
Occupational	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	99	*	*		
<b>Vapor Intrusion Into Buildings</b>																				
Urban Residential	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	18	*	*		
Occupational	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	99	*	*		
<b>Level II Ecological Screening Level Values<sup>4</sup></b>																				
Birds	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Inverts	*	*	*	*	*	*	*	*	*	*	*	*	*	30,000	*	*	*	*		
Mammals	*	*	*	*	*	*	125	*	*	*	*	*	*	*	*	3,900,000	*	*		
Plants	*	*	20	*	*	*	*	*	*	*	*	*	*	*	*	10,000	*	*		
<b>Bioaccumulation Values<sup>5</sup></b>																				
Birds Individual	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Birds Population	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Background	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
Fish Individual	*	*	*	*	*	*	*	*	*	*	*	*	*	37	*	*	*	1.9		
Fish Population	*	*	*	*	*	*	*	*	*	*	*	*	*	37	*	*	*	1.9		
Human General	*	*	*	*	*	*	*	*	*	*	*	*	*	510	*	*	*	380		
Human Subsistence	*	*	*	*	*	*	*	*	*	*	*	*	*	62	*	*	*	47		
Mammal Individual	*	*	*	*	*	*	*	*	*	*	*	*	*	360	*	*	*	18,000		
Mammal Population	*	*	*	*	*	*	*	*	*	*	*	*	*	1,800	*	*	*	90,000		

**Notes:**

- <sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.
- <sup>2</sup>Sample depth referenced to street level elevation.
- <sup>3</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.
- <sup>4</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values.
- <sup>5</sup>Oregon Department of Environmental Quality Bioaccumulation Values for Sediments.
- \*This RBC is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.
- EPA = U.S. Environmental Protection Agency
- DEQ = Oregon Department of Environmental Quality
- RBC = Risk-based concentration
- "-" not calculated
- mg/kg = milligrams per kilogram
- bgs = below ground surface
- J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.
- "<50" indicates analyte not detected above the method reporting limit.
- Yellow shading indicates concentration exceeds one or more of the DEQ's RBCs for complete exposure pathways.
- Bold indicates analyte detection.

**TABLE 5**  
**SUMMARY OF SOIL CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**POLYCHLORINATED BIPHENYLS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Sample Depth <sup>4</sup> (feet bgs)	Polychlorinated Biphenyls (EPA Method 8082) (mg/kg)						
			Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260
DP05-15	5/17/2012	15	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169	<0.0169
DP07-2	5/17/2012	2	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195
DP09-2	5/15/2012	2	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201	<0.0201
DP13-2	5/17/2012	10	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229	<0.0229
DP14-2.5	5/17/2012	11	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180
DP15-1.5	5/17/2012	9.5	<0.0180	<0.0180	<0.0180	<0.0180	<0.0180	<b>0.0478</b>	<0.0180
DP17-1.5	5/17/2012	9.5	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178	<0.0178
DP19-2.5	5/17/2012	10.25	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300	<0.0300
SOIL DUP3			<0.0216	<0.0216	<0.0216	<0.0216	<0.0216	<b>0.0267</b>	<0.0216
<b>Applicable DEQ Risk-Based Concentrations<sup>2,3</sup></b>									
<b>Surface Soil Ingestion, Dermal Contact and Inhalation</b>									
Residential			0.2 <sup>3</sup>	0.2 <sup>3</sup>	0.2 <sup>3</sup>	0.2 <sup>3</sup>	0.2 <sup>3</sup>	0.2 <sup>3</sup>	0.2 <sup>3</sup>
Urban Residential			0.31 <sup>3</sup>	0.31 <sup>3</sup>	0.31 <sup>3</sup>	0.31 <sup>3</sup>	0.31 <sup>3</sup>	0.31 <sup>3</sup>	0.31 <sup>3</sup>
Occupational			0.56 <sup>3</sup>	0.56 <sup>3</sup>	0.56 <sup>3</sup>	0.56 <sup>3</sup>	0.56 <sup>3</sup>	0.56 <sup>3</sup>	0.56 <sup>3</sup>
Construction Worker			4.4 <sup>3</sup>	4.4 <sup>3</sup>	4.4 <sup>3</sup>	4.4 <sup>3</sup>	4.4 <sup>3</sup>	4.4 <sup>3</sup>	4.4 <sup>3</sup>
Excavation Worker			120 <sup>3</sup>	120 <sup>3</sup>	120 <sup>3</sup>	120 <sup>3</sup>	120 <sup>3</sup>	120 <sup>3</sup>	120 <sup>3</sup>
<b>Volatilization to Outdoor Air</b>									
Residential			*	*	*	*	*	*	*
Urban Residential			*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*
<b>Vapor Intrusion into Buildings</b>									
Residential			*	*	*	*	*	*	*
Urban Residential			*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*
<b>Leaching to Groundwater</b>									
Residential			0.11 <sup>3</sup>	0.11 <sup>3</sup>	0.11 <sup>3</sup>	0.11 <sup>3</sup>	0.11 <sup>3</sup>	0.11 <sup>3</sup>	0.11 <sup>3</sup>
Urban Residential			0.55 <sup>3</sup>	0.55 <sup>3</sup>	0.55 <sup>3</sup>	0.55 <sup>3</sup>	0.55 <sup>3</sup>	0.55 <sup>3</sup>	0.55 <sup>3</sup>
Occupational			0.62 <sup>3</sup>	0.62 <sup>3</sup>	0.62 <sup>3</sup>	0.62 <sup>3</sup>	0.62 <sup>3</sup>	0.62 <sup>3</sup>	0.62 <sup>3</sup>
<b>Level II Ecological Screening Level Values<sup>5</sup></b>									
Plant <sup>6</sup>			40 <sup>5</sup>	40 <sup>5</sup>	40 <sup>5</sup>	40 <sup>5</sup>	40 <sup>5</sup>	40 <sup>5</sup>	40 <sup>5</sup>
Birds			*	*	*	1.5	*	0.7	*
Mammals			100	*	*	5	*	4	*

**Notes:**

<sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

<sup>3</sup>The RBC for PCBs is based on total PCBs. This RBC was derived based on the toxicity data for Aroclor 1254.

<sup>4</sup>Sample depth referenced to street level elevation.

<sup>5</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values (SLV).

<sup>6</sup>The SLV for plants is based on total PCB concentrations

\*This value is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.

<50 indicates analyte not detected above the method reporting limit.

Bold indicates analyte detection.

mg/kg = milligrams per kilogram

**TABLE 6**  
**SUMMARY OF FIELD COLLECTED WATER ANALYTICAL DATA<sup>1</sup>**  
**FIELD WATER PARAMETERS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Temperature (°C)	pH (s.u)	Conductivity (ms/cm)	Turbidity (visual)	Dissolved Oxygen (mg/l)	Oxygen Reduction Potential (mV)
DP01-051512	5/15/2012	18.94	7.50	0.356	522	5.31	-71
DP02S-051612	5/16/2012	15.39	6.42	0.268	633	3.86	-71
DP02D-051612	5/16/2012	19.03	7.26	0.575	301	7.10	-168
DP03-051612	5/16/2012	14.81	6.18	0.187	164	3.44	-27
DP04-051612	5/16/2012	12.01	5.65	0.135	489	1.70	-15
DP05-051712	5/17/2012	12.78	6.88	0.374	54.6	7.58	-45
DP06-051512	5/15/2012	19.30	7.72	0.528	>1000	13.62	-94
DP07S-051512	5/15/2012	14.55	6.97	0.299	554	2.62	-84
DP07D-051512	5/15/2012	18.22	7.64	0.502	>1000	8.27	-192
DP08-051512	5/15/2012	16.91	6.62	0.262	73	8.82	10
DP09-051512	5/15/2012	15.57	7.03	0.264	445	3.88	-75
DP10-051612	5/16/2012	--	--	--	--	--	--
DP11-051712	5/17/2012	18.43	6.95	0.554	>1000	2.27	-157
DP12-051712	5/17/2012	13.45	6.86	0.226	56	3.04	-62
DP13-051712	5/17/2012	16.97	7.64	0.096	300	4.44	-65
DP14-051712	5/17/2012	--	--	--	--	--	--
DP16-051712	5/17/2012	--	--	--	--	--	--
DP15-051712	5/17/2012	--	--	--	--	--	--
DP17-051712	5/17/2012	15.28	6.63	0.358	184	4.03	-30
DP18-051712	5/17/2012	13.39	6.21	0.712	22	3.18	-38
DP19-051712	5/17/2012	--	--	--	--	--	--
HA1-051612	5/16/2012	--	--	--	--	--	--
HA2-051612	5/16/2012	--	--	--	--	--	--

**Notes:**

-- = not analyzed

°C = Degrees Celsius

pH values appear to be low due to meter calibration issues.

s.u. = Standard Units

ms/cm = millisiemens per centimeter

mg/l = milligrams per liter

mV = millivolts

**TABLE 7**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**PETROLEUM HYDROCARBONS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Gasoline-Range Hydrocarbons (Northwest Method NWTPH-Gx) (µg/l)	Diesel- and Oil-Range Hydrocarbons (Northwest Method NWTPH-Dx) (µg/l)	
		Gasoline	Diesel	Oil
DP01-051512	5/15/2012	<25.0	<43	<220
DP2S-051612	5/16/2012	<25.0	<43	<220
DP2D-051612	5/16/2012	<25.0	<42	<210
DP03-051612	5/16/2012	<25.0	<43	<210
DP04-051612	5/16/2012	<25.0	<44	<220
DP05-051712	5/17/2012	<25.0	<40	<200
DP06-051512	5/15/2012	<25.0	<38	<190
DP07S-051512	5/15/2012	<25.0	<42	<210
DP07D-051512	5/15/2012	<25.0	<43	<220
DP08-051512	5/15/2012	<25.0	<40	<200
DP09-051512	5/15/2012	<25.0	<43	<220
DP10-051612	5/16/2012	<25.0	<38	<190
DP11-051612	5/16/2012	<25.0	<38	<190
DUP1H2O-051512	5/15/2012	<25.0	<42	<210
DP12-051712	5/17/2012	<25.0	<43	<210
DP13-051712	5/17/2012	<25.0	<45	<220
DP14-051712	5/17/2012	<25.0	<40	<200
DP15-051712	5/17/2012	<25.0	<40	<200
DP16-051712	5/17/2012	<25.0	<40	<200
DP17-051712	5/17/2012	<25.0	<39	<190
DP18-051712	5/17/2012	<25.0	<42	<210
DP19-051712	5/17/2012	<25.0	<42	<210
<b>QA/QC Samples</b>				
Rinseate Soil	5/18/2012	<25.0	<38	<190
Rinseate Water	5/18/2012	<25.0	<38	<190
TB1-051812	5/18/2012	<25.0	--	--
TB2-051812	5/18/2012	<25.0	--	--
TB3-051812	5/18/2012	<25.0	--	--
TB4-051812	5/18/2012	<25.0	--	--
TB5-051812	5/18/2012	<25.0	--	--
TB6-051812	5/18/2012	<25.0	--	--
TB7-051812	5/18/2012	<25.0	--	--
TB8-051812	5/18/2012	<25.0	--	--
TB9-051812	5/18/2012	<25.0	--	--
TB10-051812	5/18/2012	<25.0	--	--
<b>DEQ Generic Risk-Based Concentrations (µg/l) <sup>2</sup></b>				
<b>Groundwater Volatilization to Outdoor Air</b>				
Urban Residential		*	*	*
Occupational		*	*	*
<b>Groundwater Vapor Intrusion into Buildings</b>				
Urban Residential		*	*	*
Occupational		*	*	*
<b>Groundwater in Excavation</b>				
Construction and Excavation Worker		13,000	*	*

**Notes:**

<sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

\*This RBC is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.

QA/QC = Quality Assurance/Quality Control

TB = Trip Blank

-- = not analyzed

µg/l = micrograms per liter

< 250 indicates analyte not detected above the method reporting limit.

**TABLE 8**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**METALS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Metals (EPA Method 6020) (µg/l)								
		Total or Dissolved	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
DP01-051512	5/15/2012	Total	2 B	35.8	0.053 J	3.3	1.7	<0.010	0.30 J	0.45 J
DP2D-051612	5/16/2012	Total	21.6	37.6	<0.200	5.4	7.01	<0.010	<1.00	<0.200
DP2S-051612	5/16/2012	Total	1.16	43.1	<0.200	2.92	39.3	<0.010	<1.00	<0.200
DP03-051612	5/16/2012	Total	2 B	44.3	0.042 J	4.2	8.4	<0.010	<0.22	0.32 J
DP04-051612	5/16/2012	Total	1.5 B	34.1	0.036 J	3.8	2.2	0.016 J	<0.22	<0.25
DP5-051712	5/17/2012	Total	<1.00	20.1	<0.200	0.974	0.618 J	<0.010	<1.00	<0.200
DP06-051512	5/15/2012	Total	44 B	357	0.82	85.4	62.7	0.024 J	3.5	0.33 J
DP07D-051512	5/15/2012	Total	0.81 B	23.2	<0.028	0.24 J	0.62	<0.010	<0.22	<0.25
DP07D-051512	5/15/2012	Dissolved	17.3 B	43.9	<0.028	0.11 J	0.12 B	<0.010	<0.22	<0.25
DP07S-051512	5/15/2012	Total	1.2 B	42.1	<0.028	3.7	3.1	<0.010	<0.22	<0.25
DUP1H20-051512			1.6 B	56.6	0.028 J	6	3.6	<0.010	<0.22	<0.25
DP07S-051512	5/15/2012	Dissolved	0.27 J B	15.3	<0.028	0.15 J	0.099 J B	<0.010	<0.22	0.27 J
DUP1H20-051512			0.34 J B	15.7	0.071 J	0.30 J	0.22 B	<0.010	<0.22	<0.25
DP08-051512	5/15/2012	Total	0.81 B	37.3	<0.028	2.3	1.1	<0.010	<0.22	<0.25
DP09-051512	5/15/2012	Total	1.1 B	37.9	0.038 J	2.6	4.6	<0.010	<0.22	<0.25
DP10-051612	5/16/2012	Total	0.515 J	50.1	<0.200	1.36	30	<0.010	<1.00	<0.200
DP11-051612	5/16/2012	Dissolved	0.75 B	73.4	<0.028	0.19 J	0.052 J	<0.010	<0.22	<0.25
DP12-051712	5/17/2012	Total	1.3	56.4	0.67	2.3	43.6 B	0.037	1.7	0.36
DP13-051712	5/17/2012	Total	3.2 B	38.5	0.1	4.6	20.1	<0.01	<0.22	<0.25
DP14-051712	5/17/2012	Total	1.5 B	34.3	0.051	1.8	3.5	<0.01	<0.22	<0.25
DP15-051712	5/17/2012	Total	0.93 B	28.6	0.12	1.1	8.4	<0.01	<0.22	<0.25
DP16-051712	5/17/2012	Total	0.55 B	34.8	0.03	0.65	6.1	<0.01	<0.22	<0.25
DP17-051712	5/17/2012	Total	0.72 B	23.5	<0.028	0.28	0.66 B	<0.01	<0.22	<0.25
DP17-051712	5/17/2012	Dissolved	0.62 B	21.6	<0.028	0.17	0.17 B	<0.01	<0.22	0.3
DP19-051712	5/17/2012	Total	1.6 B	34.6	0.13	2.3	8.4	0.011	<0.22	<0.25
HA1-051612	5/16/2012	Total	2.2	42.1	0.046 J	4.5	12.6	<0.010	0.53	<0.25
HA2-051612	5/16/2012	Total	0.7	13.2	<0.028	0.78	5.7	<0.010	0.25 J	<0.25
<b>QA/QC Samples</b>										
Rinseate Water	5/18/2012	Total	0.16 BJ	<0.15	<0.028	<0.094	0.035	<0.01	<0.22	<0.25
Rinseate Soil	5/18/2012	Total	0.15 BJ	<0.15	<0.028	<0.094	<0.018	<0.01	<0.22	<0.25
<b>DEQ Generic Risk-Based Concentrations<sup>2</sup></b>										
<b>Volatilization to Outdoor Air</b>										
Urban Residential			*	*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*	*
<b>Vapor Intrusion into Buildings</b>										
Urban Residential			*	*	*	*	*	*	*	*
Occupational			*	*	*	*	*	*	*	*
<b>Groundwater in Excavation</b>										
Construction and Excavation Worker			5,800	25,000,000	57,000	8,700	*	*	*	1,000,000
<b>Level II Ecological Screening Level Values<sup>3</sup></b>										
Aquatic			150	4	2.2	11	2.5	0.77	5	0.12
Birds			18,000	150,000	10,000	*	28,000	3,300	3,600	*
Inverts			*	*	*	*	*	*	*	*
Mammals			6,000	39,000	8,000	25,000	323,000	10,000	1,500	*

**Notes:**

<sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

<sup>3</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values (SLV).

\*This value is either: 1) not established; 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.

EPA = U.S. Environmental Protection Agency

RBC = Risk-based concentration

DEQ = Oregon Department of Environmental Quality

µg/l = micrograms per liter

<1.0 indicates analyte not detected above the method reporting limit.

J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.

B = compound detected in associated laboratory blank.

Yellow shading indicates concentration exceeds one or more SLVs for potentially complete ecological exposure pathways.

Bold indicates analyte detection.

**TABLE 9**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
HERITAGE SQUARE - SITE INVESTIGATION  
ASTORIA, OREGON

Sample Identification	Date Sampled	Volatile Organic Compounds (EPA Method 8260B) (µg/l)																
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,1,2-Tetrachloroethane	1,1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloroethene	1,2-Dichloropropane
HA2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
DP07S-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.22 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
DUP1H20-051512		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.12 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
DP09-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.19 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
DP13-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
DP19-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.23</b>	<0.10	<0.10	<0.20	<0.10	<0.50	<0.10	<0.10	<b>48.8</b>	<0.20	<0.10
<b>QA/QC Samples</b>																		
TB1-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.44 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.20 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB3-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.12 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB4-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.11 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB5-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<b>0.10 JB</b>	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB6-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB7-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB8-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB9-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB10-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB1-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB2-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB3-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB4-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB5-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB6-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB7-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB1-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB2-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB3-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB4-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB5-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB6-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB7-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB8-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB9-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
TB10-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
Rinseate Soil	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
Rinseate Water	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.50	<0.10	<0.10	<0.10	<0.20	<0.10
<b>Applicable DEQ Risk-Based Concentrations<sup>2</sup></b>																		
<b>Volatilization to Outdoor Air</b>																		
Urban Residential	*	*	*	10,000	*	550,000	*	*	*	*	*	*	520	*	5,100	*	*	
Occupational	*	*	*	19,000	*	-	*	*	*	*	*	*	960	*	9,500	*	*	
<b>Vapor Intrusion into Buildings</b>																		
Urban Residential	*	1,200,000	*	1,600	*	27,000	*	*	*	*	5,000	*	130	*	690	*	*	
Occupational	*	-	*	8,800	*	340,000	*	*	*	*	-	*	690	*	3,800	*	*	
<b>Groundwater in Excavation</b>																		
Construction and Excavation Worker	*	1,100,000	*	990	4,300,000	43,000	*	*	*	*	1,700	*	28	37,000	630	*	*	
<b>Level II Ecological Screening Level Values<sup>3</sup></b>																		
Aquatic	186	11	*	9,400	47	25	*	*	*	110	*	*	*	14	20,000	590	5,700	
Birds	*	*	*	*	*	*	*	*	*	*	*	*	*	*	125,000	*	*	
Mammals	*	4,000,000	*	*	*	230,000	*	*	*	*	*	*	*	*	200,000	180,000	*	
Inverts	*	*	*	*	*	*	*	*	20,000	*	20,000	*	*	*	*	*	700,000	
Plants	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	



**TABLE 9**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
HERITAGE SQUARE - SITE INVESTIGATION  
ASTORIA, OREGON

Sample Identification	Date Sampled	Volatile Organic Compounds (EPA Method 8260B) (µg/l)																
		1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromochloromethane	Bromoform	Bromomethane	Carbon Disulfide
HA2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DP07S-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<b>0.21 J B</b>	<0.10	<0.10	<0.10	<0.10	<0.10
DUP1H20-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.14 J B</b>
DP09-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<b>0.18 J B</b>	<0.10	<0.10	<0.10	<0.10	<0.10
DP13-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DP19-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
<b>QA/QC Samples</b>																		
TB1-051612	5/16/2012	<b>0.13 J</b>	<0.10	<0.10	<b>0.10 J</b>	<0.10	<1.0	<b>0.25 J</b>	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB8-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB9-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB10-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB1-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB2-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	2.6 J	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB1-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB2-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>2.0</b>	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>2.0</b>	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB8-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB9-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB10-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Rinseate Soil	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>1.2</b>	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Rinseate Water	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<1.0	<0.10	<1.0	<0.10	<1.0	<1.0	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
<b>Applicable DEQ Risk-Based Concentrations<sup>2</sup></b>																		
<b>Volatilization to Outdoor Air</b>																		
Urban Residential		*	*	*	11,000	*	*	*	*	*	*	*	7,600	*	*	570,000	40,000	*
Occupational		*	*	*	20,000	*	*	*	*	*	*	*	14,000	*	*	1,100,000	170,000	*
<b>Vapor Intrusion into Buildings</b>																		
Urban Residential		*	*	*	1,000	*	*	*	*	*	*	*	510	*	*	200,000	2,800	*
Occupational		*	*	*	5,700	*	*	*	*	*	*	*	2,800	*	*	1,100,000	36,000	*
<b>Groundwater in Excavation</b>																		
Construction and Excavation Worker		23,000	*	*	1,500	*	*	*	*	*	*	*	1,700	*	*	14,000	1,200	*
<b>Level II Ecological Screening Level Values<sup>3</sup></b>																		
Aquatic		*	71	*	15	*	14,000	*	99	*	*	1,500	130	*	*	*	*	0.92
Birds		*	*	*	-	*	-	*	*	*	*	*	*	*	*	*	*	*
Mammals		*	*	*	-	*	14,000,000	*	*	*	*	76,000	200,000	*	*	*	*	*
Inverts		*	*	*	20,000	*	*	*	*	*	*	*	*	*	*	*	*	*
Plants		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

**TABLE 9**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Volatile Organic Compounds (EPA Method 8260B) (µg/l)													
		Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cis-1,2-Dichloroethene	Cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorobromomethane	Ethylbenzene	Hexachlorobutadiene	Isopropylbenzene (Cumene)	Methyl t-butyl ether
HA2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DP07S-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.17 J</b>	<0.10	<0.10	<0.10	<0.10	<b>0.15 J B</b>	<0.10	<b>0.88 J B</b>	<0.10
DUP1H20-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.17 J</b>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DP09-051512	5/15/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.14 J B</b>	<0.10	<0.10	<0.10
DP13-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
DP19-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.10</b>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
<b>QA/QC Samples</b>															
TB1-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<b>0.11 J</b>	0.23 J	<0.10	<0.10
TB2-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB8-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB9-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB10-051612	5/16/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB1-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB2-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051712	5/17/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB1-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<b>48.7</b>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB2-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB3-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB4-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB5-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB6-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB7-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB8-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB9-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
TB10-051812	5/18/2012	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Rinseate Soil	5/18/2012	<0.10	<0.10	<0.10	<b>1.9</b>	<0.10	<b>0.10</b>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Rinseate Water	5/18/2012	<0.10	<0.10	<0.10	<b>0.41</b>	<0.10	<b>&lt;0.10</b>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
<b>Applicable DEQ Risk-Based Concentrations<sup>2</sup></b>															
<b>Volatilization to Outdoor Air</b>															
Urban Residential		2,900	*	*	3,000	500,000	*	*	14,000	*	5,000	22,000	*	*	610,000
Occupational		5,400	*	*	5,500	2,100,000	*	*	26,000	*	9,300	41,000	*	*	1,100,000
<b>Vapor Intrusion into Buildings</b>															
Urban Residential		140	55,000	2,800,000	220	26,000	*	*	4,200	*	1,000	1,300	*	*	110,000
Occupational		790	-	-	1,200	320,000	*	*	23,000	*	5,600	7,400	*	*	590,000
<b>Groundwater in Excavation</b>															
Construction and Excavation Worker		1,700	10,000	2,400,000	720	22,000	24,000	*	600	*	450	4,400	*	*	62,000
<b>Level II Ecological Screening Level Values<sup>3</sup></b>															
Aquatic		74	50	*	1,240	*	590	*	*	*	*	7.3	9.3	*	*
Birds		*	*	*	*	*	-	*	*	*	*	*	*	*	*
Mammals		123,000	*	*	115,000	*	180,000	*	*	*	*	*	*	*	*
Inverts		1,000,000	40,000	*	*	*	*	*	*	*	*	*	*	*	*
Plants		*	*	*	*	*	*	*	*	*	*	*	*	*	*



**TABLE 10**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**SEMIVOLATILE AROMATIC HYDROCARBONS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Semivolatile Organic Compounds (EPA Method 8270) (µg/l)																		
		1-Methylnaphthalene	2-Methylnaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benz[a]anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	
DP07S-051512	5/15/2012	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	
DUP1H20-051512		<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	<0.052	
<b>QA/QC Samples</b>																				
Rinsate Soil	5/18/2012	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<0.051	<b>0.075 J</b>	<0.051	<0.051
Rinsate Water	5/18/2012	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<0.048	<b>0.068 J</b>	<0.048	<0.048
<b>Applicable DEQ Risk-Based Concentrations<sup>2</sup></b>																				
<b>Volatilization to Outdoor Air</b>																				
Urban Residential		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	8,400	*	*
Occupational		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	16,000	*	*
<b>Vapor Intrusion into Buildings</b>																				
Urban Residential		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	1,800	*	*
Occupational		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	10,000	*	*
<b>Groundwater in Excavation</b>																				
Construction and Excavation Worker		*	*	*	*	*	9.1	0.53	*	*	*	*	*	*	*	*	500	*	*	
<b>Level II Ecological Screening Level Values<sup>3</sup></b>																				
Aquatic		2.1	*	520	*	13	0.027	0.014	*	*	*	*	*	*	6.16	3.9	*	620	*	*
Birds		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Mammals		*	*	*	*	*	*	8,000	*	*	*	*	*	*	*	*	*	284,000	*	*
Inverts		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
Plants		*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

**Notes:**

<sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

\*This RBC is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.

QA/QC = Quality Assurance/Quality Control

µg/l = micrograms per liter

< 250 indicates analyte not detected above the method reporting limit.

Bold indicates analyte detection.

J = detected concentration between the method reporting limit and method detection limit. Value is considered an estimate.

**TABLE 11**  
**SUMMARY OF GROUNDWATER CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**POLYCHLORINATED BIPHENYLS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Polychlorinated Biphenyls (EPA Method 8082) (µg/l)						
		PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
DP07S-051512	5/15/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
DUP1H20-051512		<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
DP13-051712	5/17/2012	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
DP19-051712	5/17/2012	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
<b>QA/QC Samples</b>								
Rinseate Soil	5/18/2012	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
Rinseate Water	5/18/2012	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
<b>Applicable DEQ Risk-Based Concentrations<sup>2,3</sup></b>								
<b>Volatilization to Outdoor Air</b>								
Urban Residential		*	*	*	*	*	*	*
Occupational		*	*	*	*	*	*	*
<b>Vapor Intrusion into Buildings</b>								
Urban Residential		*	*	*	*	*	*	*
Occupational		*	*	*	*	*	*	*
<b>Groundwater in Excavation</b>								
Construction and Excavation Worker		1.9	*	*	*	*	*	*
<b>Level II Ecological Screening Level Values<sup>3</sup></b>								
Aquatic	*	0.28	0.58	0.053	0.081	0.033	94	*
Birds	*	*	*	3,000	*	1,300	*	*
Inverts	*	*	*	*	*	*	*	*
Mammals	13,000	*	*	700	*	300	*	*
Plants	*	*	*	*	*	*	*	*

**Notes:**

<sup>1</sup>Chemical analytical analyses were performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality Risk Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

<sup>3</sup>The RBC for PCBs is based on total PCBs.

<sup>4</sup>Oregon Department of Environmental Quality Level II Ecological Screening Level Values.

<50 indicates analyte not detected above the method reporting limit.

\*This value is either: 1) not established, 2) exceeds the solubility limit, or 3) is greater than a concentration where free product would be present.

RBC = risk-based concentrations

PCB = polychlorinated biphenyls

µg/l = micrograms per liter

**TABLE 12**  
**SUMMARY OF SOIL GAS CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Sample Identification	Date Sampled	Methane (Method 3C Gases) (%)	Volatile Organic Compounds (EPA Method TO-15) (µg/m <sup>3</sup> )																			
		Helium	THC as Gas	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1,2-Trichlorotrifluoroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Butadiene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	2-Propanol
SG-01	5/17/2012	0 J	<b>2,060</b>	<0.99	<0.34	<0.50	<1.4	<0.74	<0.73	<0.89	<b>1.1 J</b>	<1.4	<1.1	<0.38	<0.85	<0.23	<0.40	<1.1	<1.1	<b>5.5</b>	<0.75	<0.83
SG-2	5/17/2012	0 J	<b>8,810</b>	<1.0	<0.35	<0.52	<1.5	<0.77	<0.75	<0.93	<b>25.9</b>	<1.5	<1.1	<0.39	<0.88	<b>7.4</b>	<0.42	<1.1	<1.1	<b>17.1</b>	<b>3.9</b>	<b>2.9 J</b>
SG-03	5/17/2012	0 J	<b>1,270</b>	<1.1	<0.38	<0.57	<1.6	<0.83	<0.81	<1.0	<b>3.1</b>	<1.6	<1.2	<0.42	<0.95	<b>0.86 J</b>	<0.45	<1.2	<1.2	<b>13.5</b>	<0.84	<0.94
SG-DUP	5/17/2012	0 J	<b>1,220</b>	<0.99	<0.34	<0.50	<1.4	<0.74	<0.73	<0.89	<b>1.3 J</b>	<1.4	<1.1	<0.38	<0.85	<0.23	<0.40	<1.1	<1.1	<b>10.5</b>	<b>2.3</b>	<0.83
Applicable DEQ Risk-Based Concentrations <sup>3</sup>																						
Vapor Intrusion into Buildings																						
Urban Residential	*	79,000	1,000,000	*	42	6,300,000	80	42,000	*	1,500	*	42,000	*	*	*	*	*	120	*	*	*	
Occupational	*	1,700,000	22,000,000	*	770	130,000,000	7,700	880,000	*	31,000	*	880,000	*	*	*	*	*	1,100	*	*	*	

**TABLE 12**  
**SUMMARY OF SOIL GAS CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

		Volatile Organic Compounds (EPA Method TO-15) (µg/m3)																			
Sample Identification	Date Sampled	4-Ethyltoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Dichlorotetrafluoroethane	Ethyl acetate
SG-01	5/17/2012	<0.90	<0.75	<b>22.9</b>	<b>2.3</b>	<0.32	<1.9	<0.33	<b>4.7</b>	<0.58	<0.85	<0.49	<0.89	<0.38	<0.28	<0.20	<0.65	<1.6	<0.91	<0.38	<0.65
SG-2	5/17/2012	<b>2.9</b>	<b>1.6</b>	<b>88.8</b>	<0.30	<0.33	<2.0	<0.34	<b>1.9</b>	<0.60	<0.88	<0.50	<0.93	<0.39	<0.29	<0.21	<0.67	<1.6	<0.94	<0.40	<0.67
SG-03	5/17/2012	<1.0	<b>1.5 J</b>	<b>48</b>	<b>5.1</b>	<0.36	<2.1	<0.37	<b>4</b>	<0.65	<0.95	<0.55	<1.0	<0.42	<0.31	<0.22	<0.73	<1.7	<1.0	<0.43	<0.73
SG-DUP	5/17/2012	<0.90	<b>1.1 J</b>	<b>35.8</b>	<b>2.4</b>	<0.32	<1.9	<0.33	<b>1.7</b>	<0.58	<0.85	<0.49	<0.89	<0.38	<0.28	<0.20	<0.65	<1.6	<0.91	<0.38	<0.65
Applicable DEQ Risk-Based Concentrations <sup>3</sup>																					
Vapor Intrusion into Buildings																					
Urban Residential		*	*	*	170	36	1,200	1,000	*	220	10,000	2,100,000	58	19,000	*	*	*	*	*	*	*
Occupational		*	*	*	1,600	330	11,000	22,000	*	2,000	220,000	44,000,000	530	390,000	*	*	*	*	*	*	*

**TABLE 12**  
**SUMMARY OF SOIL GAS CHEMICAL ANALYTICAL DATA<sup>1</sup>**  
**VOLATILE ORGANIC COMPOUNDS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

		Volatile Organic Compounds (EPA Method TO-15) (µg/m <sup>3</sup> )																				
Sample Identification	Date Sampled	Ethylbenzene	Hexachloro-1,3-butadiene	m&p-Xylene	Methylene Chloride	MTBE	Naphthalene	n-Heptane	n-Hexane	o-Xylene	Propylene	Styrene	Tetrachloroethene	Tetrahydrofuran	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethylene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Total Xylenes
SG-01	5/17/2012	<0.21	<2.0	<1.6	<b>2.6</b>	<0.16	<0.96	<0.75	<b>21.2</b>	<0.23	<b>30</b>	<0.78	<b>34.1</b>	<0.54	<b>2.7</b>	<0.73	<0.83	<b>1.2</b>	<b>1.2 J</b>	<0.64	<0.23	<1.83
SG-2	5/17/2012	<0.22	<2.1	<1.6	<b>3.2</b>	<0.16	<b>19.8<sup>2</sup></b>	<b>25.7</b>	<0.78	<b>1.5 J</b>	<b>1.3</b>	<0.81	<b>148</b>	<0.56	<b>&lt;0.72</b>	<0.76	<0.86	<0.52	<b>1.3 J</b>	<0.66	<0.24	<b>1.5 J</b>
SG-03	5/17/2012	<b>2.1</b>	<2.2	3.0 J	<b>6.2</b>	<0.18	<b>4.3</b>	<b>44.3</b>	<b>3.5</b>	<b>2.5</b>	<b>27.8</b>	<0.87	<0.69	<0.61	<b>6.2</b>	<0.82	<0.93	<0.57	<b>1.3 J</b>	<0.72	<0.26	<b>2.5</b>
SG-DUP	5/17/2012	<b>0.50 J</b>	<2.0	<1.6	<b>1.6</b>	<0.16	<b>2.2<sup>3</sup></b>	<b>19.7</b>	<b>2.7</b>	<0.23	<b>11.5</b>	<0.78	<b>30.9</b>	<b>3.0</b>	<0.69	<0.73	<0.83	<0.50	<b>1.2 J</b>	<0.64	<0.23	<1.83
Applicable DEQ Risk-Based Concentrations <sup>3</sup>																						
Vapor Intrusion into Buildings																						
Urban Residential		530	*	*	*	5,100	39	*	*	*	*	210,000	*	*	1,000,000	13,000	*	*	150,000	*	41	21,000
Occupational		4,900	*	*	*	47,000	360	*	*	*	*	4,400,000	*	*	22,000,000	260,000	*	*	3,100,000	*	2,800	440,000

**Notes:**

<sup>1</sup>Chemical analysis was performed by Pace Analytical of Seattle, Washington.

<sup>2</sup>Oregon Department of Environmental Quality. Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites, revised June 7, 2012.

<sup>3</sup>Sampled analytical results flagged as biased high due to batch QA/QC concerns.

\*This RBC is either: 1) not established, 2) considered non-volatile, or 3) is greater than the vapor pressure of the pure chemical.

µg/m<sup>3</sup> = micrograms per cubic meter of air

<7.1 = analyte not detected above method reporting limit value shown.

Bold = analyte detection; Shading indicates one or more DEQ RBC's were exceeded.

J = The reported result should be considered an estimated value according to the lab report.

EPA = U.S. Environmental Protection Agency

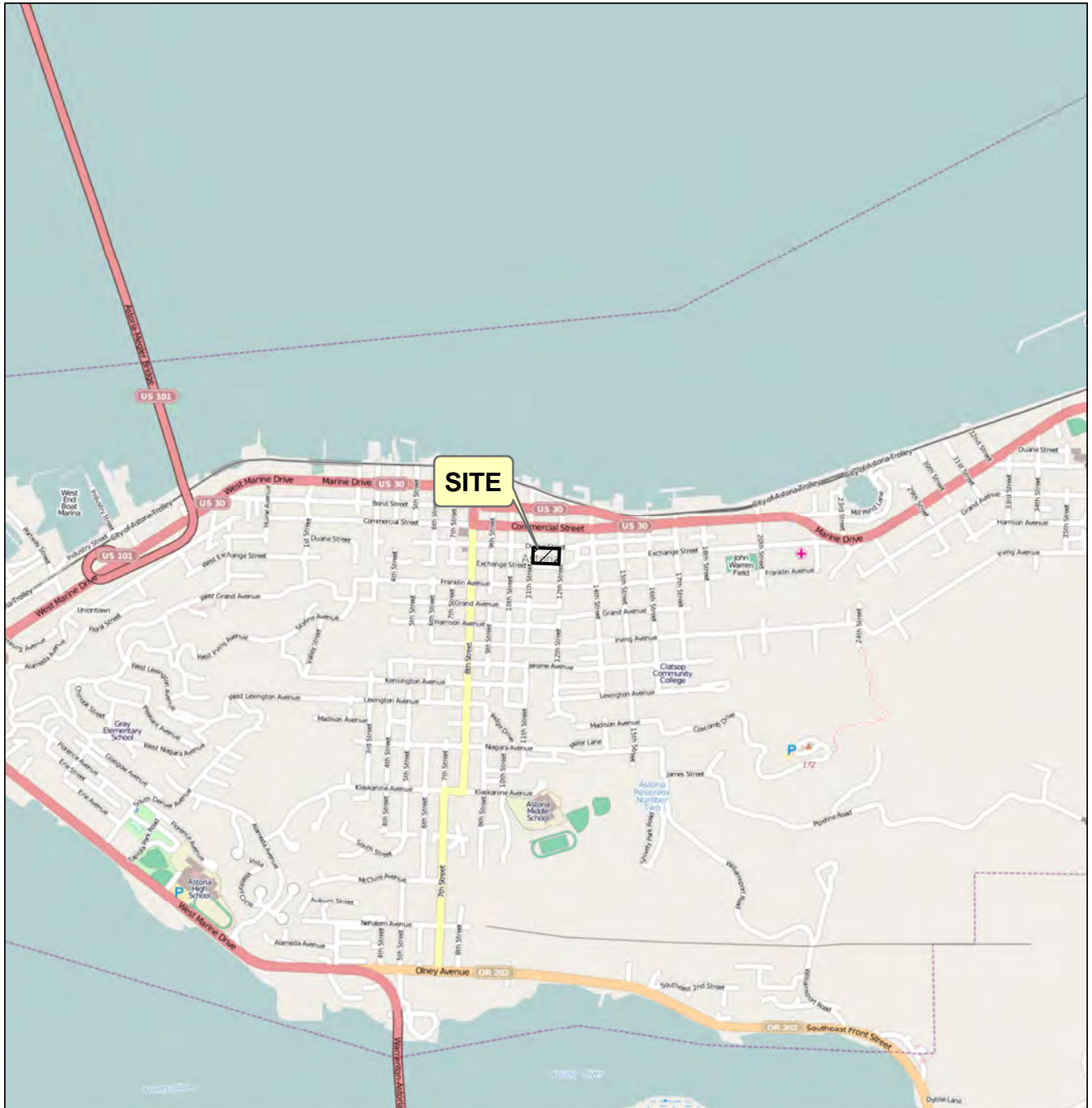
THC = Total hydrocarbon concentration

RBC = Risk Based Concentrations



Map Revised: 4/11/2012 CRC

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Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document.

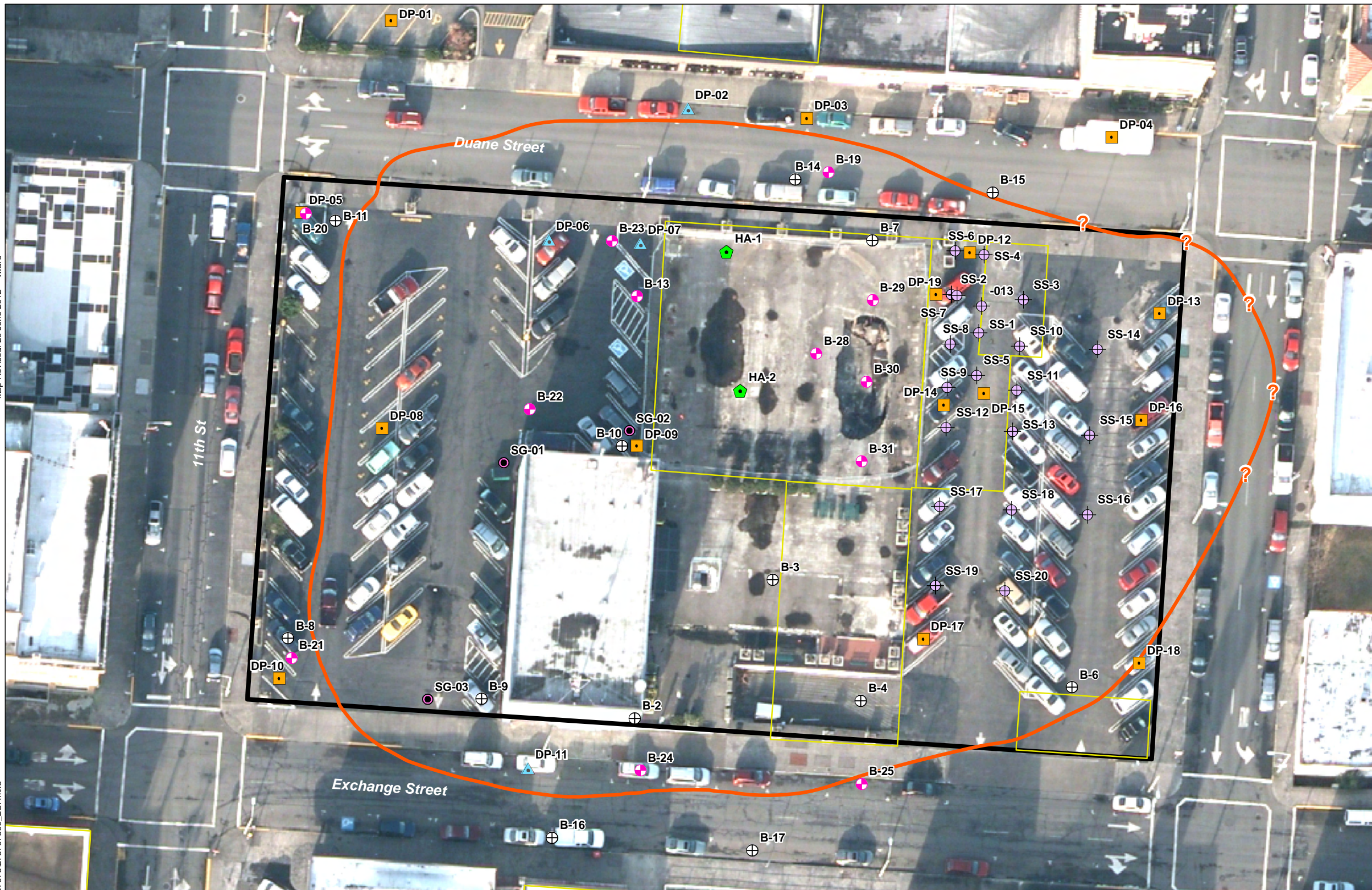
GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Data Sources: ESRI Data & Maps, Street Maps 2008.  
 Open Street Map base from ESRI Data Online.  
 Projection: NAD 1983, UTM Zone 11 North.

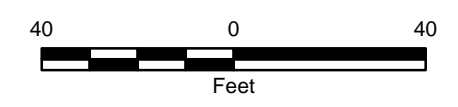
<b>Vicinity Map</b>	
Heritage Square Astoria, Oregon	
	<b>Figure 1</b>

Map Revised: 29 June 2012 tward

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- Legend**
- Direct Push Exploration Location (May 2012)
  - ⬠ Hand Auger Sample Location (May 2012)
  - Soil Gas Exploration (May 2012)
  - ▲ Direct Push Exploration Location with Deeper Groundwater Sampling (May 2012)
  - ⊕ Push Probe w Groundwater Sample (Feb/Mar 2003)
  - ⊕ Push Probe w Groundwater Sample (Oct 2003)
  - ⊕ Soil Grab Sample Location
  - Approximate Locality of Facility (LOF) Based on Current and Historical Data
  - Former Building Location
  - Site Boundary
  - ? Assumed LOF



Data Source: Aerial and underground tunnel/utilities from City of Astoria.  
 Historic location from Hahn and Associates, Figure 3 Site Map, December 2003.

Projection: NAD 1983 StatePlane Oregon North FIPS 3601 Feet

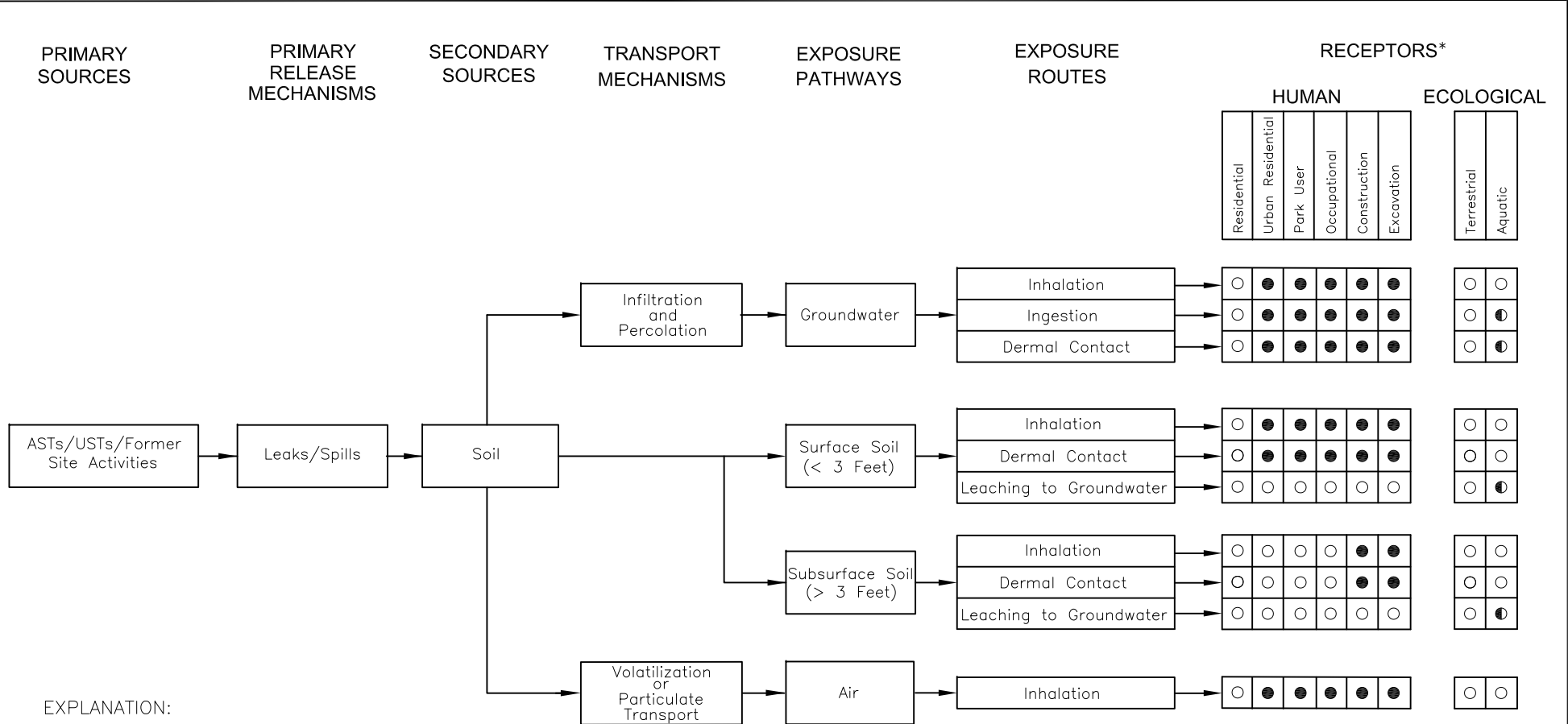
Notes:  
 1. The locations of all features shown are approximate.  
 2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. cannot guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

**Site Layout**

Heritage Square  
 Astoria, Oregon



**Figure 2**



EXPLANATION:

- COMPLETE PATHWAY
- ◐ POTENTIALLY COMPLETE
- INCOMPLETE PATHWAY
- \* RECEPTORS INCLUDE BOTH CURRENT AND FUTURE EXPOSURE SCENARIOS

Notes:

1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

<b>Conceptual Site Model</b>	
Heritage Square Astoria, Oregon	
<b>GEOENGINEERS</b>	<b>Figure 3</b>

**APPENDIX A**  
**Field Procedures**

## **APPENDIX A FIELD PROCEDURES**

This appendix describes the field procedures, field quality assurance/quality control (QA/QC) protocol, and the chemical testing program implemented during the SI. Field methods described in this appendix include:

- Collection of soil samples from direct-push explorations;
- Field screening soil samples;
- Collection of groundwater samples from direct-push explorations;
- Collection of soil gas samples from direct-push explorations;
- Location control;
- Decontamination procedures;
- Handling of investigation derived waste (IDW); and
- Chain of Custody Procedures.

### **Collecting Soil and Groundwater Samples from Direct-Push and Hand Auger Explorations**

#### ***Soil Sampling***

Direct-push explorations were advanced using equipment operated by Pacific Soil and Water, LLC. Soil samples were obtained continuously from each direct-push exploration using a 5-foot-long 2-inch-diameter piston sampler lined with acrylic sleeves. The sealed piston sampler allows for the collection of soil samples from discrete depth intervals without interference from overlying soil. Sampling equipment was decontaminated between each sampling event.

Hand auger soil explorations were advanced with a stainless steel hand auger. Soil samples were obtained continuously from each hand auger exploration by clearing the hand auger barrel with a nitrile gloved hand. Sampling equipment was decontaminated between each sampling event.

Soil samples collected from the explorations were field-screened for the presence of volatile organic compounds (VOCs) using a photoionization detector (PID) and for petroleum hydrocarbons using a sheen test. Field screening methodology is discussed further below in this Appendix.

Soil samples were placed in an ice chest containing crushed wet ice for storage prior to delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

#### ***Groundwater Sampling***

Groundwater samples were collected from the direct-push explorations during field activities using low flow sampling techniques with a peristaltic pump and disposable polyethylene tubing. The tubing was inserted into a temporary well, constructed of schedule 40 poly-vinyl

chloride (PVC) casing with machine slotted screen. Used polyethylene tubing and PVC casing were discarded after each sampling attempt.

At a minimum, one casing volume of groundwater was purged before sampling proceeded. For data evaluation purposes field measurements of pH, specific conductance, temperature and turbidity were made during the purging of the four deeper groundwater samples and a select number of the shallow samples.

Recovered groundwater was transferred to laboratory-prepared containers. The groundwater samples were immediately stored in a cooler with crushed wet ice pending delivery to the laboratory. Chain-of-custody procedures were followed during transport of the samples to the analytical laboratory.

### **COLLECTING SOIL GAS SAMPLES**

GeoEngineers collected soil gas samples during the May 2012 event using direct-push drilling equipment owned and operated by Pacific Soil and Water, LLC. A soil gas probe (SGP) was advanced at each location to a depth of approximately 5 feet bgs. Soil samples were not collected from the borings, thus, subsurface soil and groundwater conditions were not recorded on boring logs.

GeoEngineers collected a soil gas sample at each location using the following procedure:

- Sample collection tools were advanced to approximately 5 feet bgs;
- New fluoropolymer (Teflon®) tubing was attached to a Geoprobe® Post-Run Tubing (PRT) adaptor. The PRT adaptor was lowered through the Geoprobe® tooling and engaged to an Expendable Point Adaptor;
- The tubing (above ground) was connected to a sampling manifold;
- Hydrated bentonite was placed around the soil gas probe where it enters the ground surface;
- A plastic bucket shroud was placed around the soil gas probe where it enters the ground surface;
- The shroud was charged with helium gas and the helium concentration inside of the shroud was be measured using a hand-held helium monitor;
- The sampling train (above-and-below ground components) was purged using a disposable syringe. After purging three sampling train volumes, the helium concentration within the sampling train was measured and recorded;
- The sampling manifold was vacuum tested by briefly introducing a vacuum to the above-ground portion of the sampling train and checking for loss of vacuum; and
- The soil-gas sample was collected using a summa canister, set to a flow rate of less than or equal to approximately 200 milliliters per minute. The canister was filled with soil gas until a vacuum equivalent of approximately 5 inches of mercury remained in the summa canister.

Following collection of each soil gas sample, the tooling was removed from the ground and each boring was abandoned in accordance with the requirements of the Oregon Water Resources Department (OWRD).

### **Field Screening Soil Samples**

Field screening tests were performed on all soil samples obtained from the explorations. Field screening results were used to aid in the selection of soil samples for chemical analysis. Screening methods included: 1) visual examination; 2) water sheen screening; and 3) headspace vapor screening using a PID. The PID was calibrated daily and a calibration log was maintained for the full duration of the field project.

Visual screening consists of inspecting the soil for discoloration indicative of the presence of petroleum in the sample. Water sheen screening involves placing soil in water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen (NS)	No visible sheen on the water surface.
Slight Sheen (SS)	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce a slight sheen.
Moderate Sheen (MS)	Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.
Heavy Sheen (HS)	Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

Headspace vapor screening involves placing a soil sample in a plastic bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a PID is inserted into the bag, and the PID measures VOC vapor concentrations in parts per million (ppm). The MiniRAE PID is calibrated to fresh air and to 100 ppm isobutylene. The PID is designed to quantify VOC vapor concentrations in the range between 1 ppm and 2,000 ppm with an accuracy of 10 percent of the reading and between 2,000 ppm and 10,000 ppm with an accuracy of 20 percent of the reading.

Field screening results are site-and sample-specific. The results may vary with temperature, soil moisture content, soil type and type of contaminant.

### **Location Control**

GeoEngineers recorded the position of each exploration by locating the exploration to known site features using hand measurement techniques. GeoEngineers personnel are not licensed surveyors. Boring locations should be considered approximate.

### **Decontamination Procedures**

The objective of the decontamination procedure is to minimize the potential for cross-contamination between exploration locations and between individual samples within a specific exploration. A designated decontamination area was established for decontamination of

drilling equipment and reusable sampling equipment. Drilling equipment was cleaned using steam cleaning equipment.

Sampling or measurement equipment, including well purging equipment and water level measurement instruments, were decontaminated in accordance with the following procedures before each sampling attempt or measurement.

- Brush equipment with a wire brush, if necessary, to remove large particulate matter.
- Rinse with potable tap water.
- Wash with nonphosphate detergent solution (Liquinox® and potable tap water).
- Rinse with potable tap water.
- Rinse with distilled water.

### **Handling of Investigation-Derived Waste**

IDW, mainly drill cuttings and decontamination water, was placed in U.S. Department of Transportation (DOT) approved 55-gallon drums. Each drum was labeled with the project name, exploration number, general contents, and date. The drummed IDW is stored onsite pending analysis and disposal.

Disposable items, such as sample tubing, direct-push sampler acrylic sleeves, gloves and protective overalls, paper towels, etc., were placed in plastic bags after use and deposited in trash receptacles for disposal.

## **FIELD QUALITY ASSURANCE PROCEDURES**

### **Sample Custody**

#### ***Sample Containers and Storage***

All samples obtained for chemical analysis were transferred in the field to laboratory-prepared sample containers and kept cool during transport to the testing laboratory. The sample containers were filled completely to eliminate headspace in the container. Chain-of-custody procedures were observed during transport of the samples to the testing laboratory.

#### ***Field Custody Procedures***

All samples obtained for chemical analysis were transferred into clean sample containers supplied by the project analytical laboratory. Sufficient sample volume was obtained for the laboratory to complete the method-specific QC analyses. Possession of the samples was documented by the chain-of-custody. Proper sample handling procedures, including security and integrity of the samples, was the responsibility of the individual/company identified on the chain-of-custody. The chain-of-custody form was signed and dated in the appropriate places by parties involved with a transfer of custody.



### ***Field Duplicates***

Field duplicates were collected at a daily frequency of 20 percent (not less than 1 duplicate per 20 samples). Field duplicates consisted of two samples collected sequentially from one sample location to assess data variability. The field duplicates were analyzed by the same analytical methods used for primary samples. Relative percent differences (RPDs) for field duplicates were calculated to assess the data precision and accuracy and potential variability caused by sample handling.

### ***Field Transport (Trip) Blanks***

Trip blanks accompanied the samples to the project laboratory. These blanks were prepared by the analytical laboratory with carbon-free water. One trip blank was submitted and analyzed for each cooler submitted to the analytical laboratory where VOC analysis is requested. Trip blanks were only analyzed for VOCs.

### ***Rinseate Blanks***

Rinseate blanks were collected. Each blank consisted of two VOC vials filled with purified water at the site and shipped back with the samples. The rinseate blanks were used to assess potential contamination of samples resulting from improperly decontaminated sampling equipment.

### ***Laboratory Custody Procedures***

Upon receipt of the samples at the laboratory, whether delivered by GeoEngineers personnel or a courier service, the following procedures were followed.

The custody seals were broken, the chain-of-custody form was signed by the laboratory personnel, and the conditions of the samples were recorded on the form. The original chain-of-custody form remained with the laboratory and copies were returned to the relinquishing party.

### ***Chain of Custody Procedures***

All samples obtained for chemical analysis were transferred into clean sample containers supplied by the project analytical laboratory. Sufficient sample volume was obtained for the laboratory to complete the method-specific QC analyses. Possession of the samples was documented by the chain-of-custody. The chain-of-custody forms were signed and dated in the appropriate places by parties involved with a transfer of custody.

Upon receipt of the samples at the laboratory, the following procedures were followed. The custody seals were broken, the chain-of-custody form was signed by the laboratory personnel, and the conditions of the samples were recorded on the form. The original chain-of-custody form remained with the laboratory and copies were returned to the relinquishing party.

## SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS <small>(LITTLE OR NO FINES)</small>		<b>GW</b>	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
		GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GP</b>	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES	
	SAND AND SANDY SOILS	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>GM</b>	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
			GRAVELS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>GC</b>	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
		MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SANDS <small>(LITTLE OR NO FINES)</small>		<b>SW</b>	WELL-GRADED SANDS, GRAVELLY SANDS
			SANDS WITH FINES <small>(APPRECIABLE AMOUNT OF FINES)</small>		<b>SP</b>	POORLY-GRADED SANDS, GRAVELLY SAND
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		<b>SM</b>	SILTY SANDS, SAND - SILT MIXTURES	
				<b>SC</b>	CLAYEY SANDS, SAND - CLAY MIXTURES	
				<b>ML</b>	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY	
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>CL</b>	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	
				<b>OL</b>	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
				<b>MH</b>	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS	
SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		<b>CH</b>	INORGANIC CLAYS OF HIGH PLASTICITY		
			<b>OH</b>	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY		
HIGHLY ORGANIC SOILS				<b>PT</b>	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

### Sampler Symbol Descriptions

	2.4-inch I.D. split barrel
	Standard Penetration Test (SPT)
	Shelby tube
	Piston
	Direct-Push
	Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

<b>%F</b>	Percent fines
<b>AL</b>	Atterberg limits
<b>CA</b>	Chemical analysis
<b>CP</b>	Laboratory compaction test
<b>CS</b>	Consolidation test
<b>DS</b>	Direct shear
<b>HA</b>	Hydrometer analysis
<b>MC</b>	Moisture content
<b>MD</b>	Moisture content and dry density
<b>OC</b>	Organic content
<b>PM</b>	Permeability or hydraulic conductivity
<b>PP</b>	Pocket penetrometer
<b>PPM</b>	Parts per million
<b>SA</b>	Sieve analysis
<b>TX</b>	Triaxial compression
<b>UC</b>	Unconfined compression
<b>VS</b>	Vane shear

### Sheen Classification

<b>NS</b>	No Visible Sheen
<b>SS</b>	Slight Sheen
<b>MS</b>	Moderate Sheen
<b>HS</b>	Heavy Sheen
<b>NT</b>	Not Tested

## ADDITIONAL MATERIAL SYMBOLS

SYMBOLS		TYPICAL DESCRIPTIONS
GRAPH	LETTER	
	<b>AC</b>	Asphalt Concrete
	<b>CC</b>	Cement Concrete
	<b>CR</b>	Crushed Rock/Quarry Spalls
	<b>TS</b>	Topsoil/Forest Duff/Sod

### Groundwater Contact

	Measured groundwater level in exploration, well, or piezometer
	Groundwater observed at time of exploration
	Perched water observed at time of exploration
	Measured free product in well or piezometer

### Graphic Log Contact

	Distinct contact between soil strata or geologic units
	Approximate location of soil strata change within a geologic soil unit

### Material Description Contact

	Distinct contact between soil strata or geologic units
	Approximate location of soil strata change within a geologic soil unit

### Laboratory / Field Tests

<b>%F</b>	Percent fines
<b>AL</b>	Atterberg limits
<b>CA</b>	Chemical analysis
<b>CP</b>	Laboratory compaction test
<b>CS</b>	Consolidation test
<b>DS</b>	Direct shear
<b>HA</b>	Hydrometer analysis
<b>MC</b>	Moisture content
<b>MD</b>	Moisture content and dry density
<b>OC</b>	Organic content
<b>PM</b>	Permeability or hydraulic conductivity
<b>PP</b>	Pocket penetrometer
<b>PPM</b>	Parts per million
<b>SA</b>	Sieve analysis
<b>TX</b>	Triaxial compression
<b>UC</b>	Unconfined compression
<b>VS</b>	Vane shear

### Sheen Classification

<b>NS</b>	No Visible Sheen
<b>SS</b>	Slight Sheen
<b>MS</b>	Moderate Sheen
<b>HS</b>	Heavy Sheen
<b>NT</b>	Not Tested

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

## KEY TO EXPLORATION LOGS

Drilled	Start 5/15/2012	End 5/15/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/15/2012		12.2				

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0		48					AC	Approximately 4 inches asphalt			
							GP	Gray fine gravel with sand (base course) (moist)			
				DP-01-1.5			SP	Brown fine sand (moist)	NS	1.5	
5		54					ML	Orange-brown clayey silt with fine to coarse gravel (moist)	NS	3.1	
				DP-01-8			SW	Orange-brown fine to coarse sand (moist)			
10		54					GP	Black fine to coarse angular gravel (burned or charred)			
							SP	Gray fine sand (moist to wet)			
15				DP-01-14					NS	1.4	

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-01



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-2  
 Sheet 1 of 1

Portland: Date: 6/25/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GE8\_ENVIRONMENTAL\_STANDARD

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	30	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured	5/16/2012	Depth to Water (ft)	18.0	Elevation (ft)
Notes:											

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0	60						AC			Hand auger from 1 to 5 feet  No odors
							CC			
							SP			
5	24									
10	48								NS	<1
15	54								NS	<1
20									NS	1.4
							ML			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\lib\template\GEOENGINEERS8.GDT\GE08\_ENVIRONMENTAL\_STANDARD

### Log of Direct Push DP-02



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-3  
 Sheet 1 of 2

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
20		54					SM	Gray silty sand with gravel (dense, moist)		
25		60		DP-02-25			SP	Gray medium sand (loose, wet)	NS	<1
30				DP-02-30					NS	<1

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-02 (continued)



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/16/2012		12.0				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		60					AC			Hand auger from 1 to 5 feet
							CC			
							SP			
5		48		DP-03-6			ML		NS	<1
							SP		NS	<1
10		48		DP-03-10			SP		NS	<1
									NS	<1
15				DP-03-13					NS	<1

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2787073\00\GINT\278707300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

### Log of Direct Push DP-03



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-4  
 Sheet 1 of 1

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/16/2012		12.5				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0	36						AC			Approximately 4 inches asphalt
							CC			Approximately 4 inches concrete
							GP			Gray fine to coarse gravel (base course)
							SW			Gray-brown fine to coarse sand (fill)
				DP-04-3				NS	<1	
5	36									Approximate 1-inch gray silt lense
				DP-04-7				NS	<1	Becomes black
										Brick pieces and occasional gravel
10	48									
				DP-04-13				NS	<1	
15										

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-04



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-5  
 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/17/2012		11.0				

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0		42					AC	Approximately 3 inches asphalt				
					DP-05-2		GM	Gravel and silt		NS	1.7	
							ML	Light brown silt with gravel (hard, dry)				
5		42					CL	Gray clay (hard, dry)				
							ML	Light brown silt with gravel (hard, dry)				
					DP-05-10		SP	Brown fine sand with 3-inch layer of burnt gravel (moist)		NS	2.7	
10		54					SP	Brown fine sand (moist to wet)				
							SP	Gray fine sand (wet)		NS	4.6	
15					DP-05-15							

Note: See Figure A-1 for explanation of symbols.

Portfile: Date: 6/25/12 Path: P:\2787-073\00\GINT\2787-07300.GPJ DBT\template\lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

### Log of Direct Push DP-05



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-6  
 Sheet 1 of 1




Drilled	Start 5/15/2012	End 5/15/2012	Total Depth (ft)	40	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push		
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig	
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		5/15/2012	Depth to Water (ft)	23.8	Elevation (ft)
Notes:												

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
0		48					AC	Approximately 4 inches asphalt				
							GP	Brown-gray fine gravel with sand				
					DP-06-3		SP	Brown fine sand (moist)	NS	3		
							GW	Gray fine to coarse gravel				
5		48					ML/CL	Reddish-brown clayey silt with fine gravel (moist)				
					DP-06-10				NS	2		
10		48					SP	Gray fine sand (wet)				
					DP-06-15				NS	3		
15		48					ML	Gray silt with fine sand (wet)				
					DP-06-20				NS	2.5		
20												

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

<b>Log of Direct Push DP-06</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-7 Sheet 1 of 2

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
20	24					ML	Gray silt with fine sand (wet)			
				DP-06-25				NS	3.8	
25	60					SP	Gray fine sand (wet)			
				DP-06-30				NS	4.5	
30	0									
35	60						With silt			
40				DP-06-40				NS	4	

Note: See Figure A-1 for explanation of symbols.

**Log of Direct Push DP-06 (continued)**




Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Drilled	Start	End	Total Depth (ft)	40	Logged By	CJW	Checked By	JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data			Drilling Equipment AMS Track Rig				
Easting (X) Northing (Y)			System Datum		Groundwater			Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:										11.7		

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample							
0			36				AC	Approximately 4 inches asphalt				
					DP-07-2		GP	Gray fine gravel with sand mixed with asphalt		NS	<1	
							SP	Brown fine sand (moist) (fill)  With pieces of brick				
5			24				ML	Brown silt with clay and occasional gravel and sand  Asphalt layer Brick pieces from 9.5 to 10 feet		NS	<1	
10			48				SP	Brown-gray fine sand (wet)				
15			48				ML	Gray silt with fine sand (wet)				
20					DP-07-DUP1-2					NS	<1	

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 02/21/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\lib\template:GEOENGINEERS8.GDT\GE08\_ENVIRONMENTAL\_STANDARD

<b>Log of Direct Push DP-07</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-8 Sheet 1 of 2

Portland: Date: 6/25/12 Path: P:\2787073\00\GINT\278707300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GE08\_ENVIRONMENTAL\_STANDARD

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
20		0					ML	Gray silt with fine sand (wet)		
25		60					SP	Gray fine sand (wet)		
30		60								
35		0								
40										

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-07 (continued)



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Drilled	Start 5/15/2012	End 5/15/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/15/2012		11.3				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		42					AC			Approximately 4 inches asphalt
							GP			Gray gravel with sand mixed with asphalt
							GW			Gray fine to coarse gravel with sand interbedded with fine sand and silt
5		48		DP-08-5			ML/CL	NS	<1	Brown silt with clay and fine to coarse sand and occasional gravel (moist)
10		48		DP-08-10			SP	NS	<1	Brown fine sand (wet)
15				DP-08-15			SP	NS	<1	Gray fine sand

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\2787\07\300.GPJ DBT\template\lib\template:GEOENGINEERS8.GDT\GE08\_ENVIRONMENTAL\_STANDARD

### Log of Direct Push DP-08



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-9  
 Sheet 1 of 1

Drilled	Start 5/15/2012	End 5/15/2012	Total Depth (ft)	15	Logged By Checked By	CJW JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/15/2012		13.0				

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval Depth (feet)	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0	24					AC	Approximately 4 inches asphalt				
						GP	Gray fine gravel with sand				
				DP-09-2		SP	Brown fine sand (moist) (fill)	NS	<1		
5	24						With brick				
							Asphalt layer with gravel and sand fill				
10	60					SP	Brown-gray fine sand				
				DP-09-Dup-1			Becomes gray	NS	<1		
15											

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-09



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-10  
 Sheet 1 of 1

Portland: Date: 6/25/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GE8\_ENVIRONMENTAL\_STANDARD

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	15	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:						5/16/2012		11.5			

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		48					AC GP			Approximately 3 inches asphalt Gray sandy gravel
				DP-10-3			ML/CL	NS	2.5	Light brown-orange silty clay with gravel (hard, dry)
5		48								
				DP-10-10				NS	2.9	
10		48								
				DP-10-15			SP	NS	3.4	Dark gray fine sand with wood fragments (loose fill)
15										

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-10



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-11  
 Sheet 1 of 1


Portland: Date: 6/25/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

Drilled	Start	End	Total Depth (ft)	40	Logged By	AJF	Checked By	JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data			Drilling Equipment AMS Track Rig				
Easting (X) Northing (Y)			System Datum		Groundwater			Date Measured		Depth to Water (ft)		Elevation (ft)
Notes:										17.0		

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS		
	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing					Water Level	Graphic Log
0		60						AC	Approximately 3 inches asphalt			
								ML/CL	Light brown silty clay with gravel (hard, dry)			
					DP-11-3					NS	2.3	
5		48							With brick pieces			
					DP-11-10			CL	Light brown sandy clay			
									Approximately 3-inch thick sand lens	NS	2.5	
10		48										
					DP-11-15			CL	Dark gray clay with wood debris			
										NS	2.7	
15		60										
					DP-11-20			GP	Dark gray sandy gravel (loose, wet)			
									Becomes dark brown			
20												

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 02/12/2012 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT Template\Lib\Template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

<b>Log of Direct Push DP-11</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-12 Sheet 1 of 2



Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\2787\07\300.GPJ DBT\template\lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

Elevation (feet)	FIELD DATA					Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing							
20	60						GP	Dark brown sandy gravel (loose, wet)				
							SP	Dark gray fine sand (loose, wet)				
25	48			DP-11-25			SM	Dark gray silty sand with gravel (loose, wet)	NS	2.4		
								Becomes moist				
30	48			DP-11-30				Becomes gray/brown	NS	3.2		
							SP-SM	Dark gray fine sand with silt (moist)	NS	4.4		
35	36			DP-11-35			ML	Gray silt (hard, dry)				
40				DP-11-40								

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-11 (continued)



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00


Figure A-12  
 Sheet 2 of 2

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5.5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:						5/17/2012		3.5			

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Water Level	Graphic Log				
0		60		DP-12-1			SP			
5							Brown/gray very fine sand Becomes brown	NS	3.5	
							Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD


<b>Log of Direct Push DP-12</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-13 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5.5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured	Depth to Water (ft)	Elevation (ft)		
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0	60			DP-13-1.5			SP			
5								NS	<1	

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD


<b>Log of Direct Push DP-13</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-14 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5.5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0		60					SP	Gray/brown fine sand Becomes brown and moist			
				DP-14-2.5					NS	<1	
5								Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

<b>Log of Direct Push DP-14</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-15 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured	Depth to Water (ft)	Elevation (ft)		
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample Sample Name Testing	Water Level	Graphic Log				
0		60		DP-15-1.5						
5						SP	Brown/gray fine sand Becomes brown and moist	NS	<1	
							Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-15



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00


Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured	Depth to Water (ft)	Elevation (ft)		
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		60					SP			
				DP-16-2.5				NS	3.9	
5							Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD


<b>Log of Direct Push DP-16</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-17 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5.5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0		60									
				DP-17-1.5			SP	Brown/gray fine sand Becomes brown and moist	NS	2.5	
5								Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD


<b>Log of Direct Push DP-17</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-18 Sheet 1 of 1

Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5.5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/17/2012		4.0				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0		60					SP			
				DP-18-1.5			Brown/gray fine sand Becomes brown and moist	NS	2.8	
5							Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

Portland: Date: 6/25/12 Path: P:\2012\787073\00\GINT\278707\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GEB\_ENVIRONMENTAL\_STANDARD

<b>Log of Direct Push DP-18</b>		
	Project:	Heritage Square
	Project Location:	Astoria, Oregon
	Project Number:	2787-073-00
		Figure A-19 Sheet 1 of 1



Drilled	Start 5/17/2012	End 5/17/2012	Total Depth (ft)	5	Logged By Checked By	AJF JHB	Driller	Pacific Soil and Water	Drilling Method	Direct Push	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				AMS Track Rig
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/17/2012		3.5				

Elevation (feet)	FIELD DATA						Group Classification	MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level					
0		60					SP	Brown/gray fine sand Becomes brown and moist			
				DP-19-2.5					NS	3.5	
5								Becomes gray and wet			

Note: See Figure A-1 for explanation of symbols.

### Log of Direct Push DP-19



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-20  
 Sheet 1 of 1

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	4.5	Logged By Checked By	AJF JHB	Driller	GEI	Drilling Method	Hand Auger	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Hand Auger
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured	Depth to Water (ft)	Elevation (ft)		
Notes:					5/16/2012		3.0				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0							CC			Approximately 4 inches concrete
							SP			Brown sand (soft, moist)
	12			HA-1-2				NS	<1	
							SP			Gray fine sand (wet)

Note: See Figure A-1 for explanation of symbols.

### Log of Hand Auger HA-1



Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Figure A-21  
 Sheet 1 of 1

Drilled	Start 5/16/2012	End 5/16/2012	Total Depth (ft)	3	Logged By Checked By	CJW JHB	Driller	GEI	Drilling Method	Hand Auger	
Surface Elevation (ft) Vertical Datum			Undetermined		Hammer Data		Drilling Equipment				Hand Auger
Easting (X) Northing (Y)			System Datum		Groundwater		Date Measured		Depth to Water (ft)	Elevation (ft)	
Notes:					5/16/2012		3.0				

Elevation (feet)	FIELD DATA						MATERIAL DESCRIPTION	Sheen	Headspace Vapor (ppm)	REMARKS
	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level				
0							CC			Approximately 4 inches concrete
		12		HA-2-1			SP	NS	<1	Brown fine sand (soft, moist)
							SP			Becomes wet

Note: See Figure A-1 for explanation of symbols.

### Log of Hand Auger HA-2



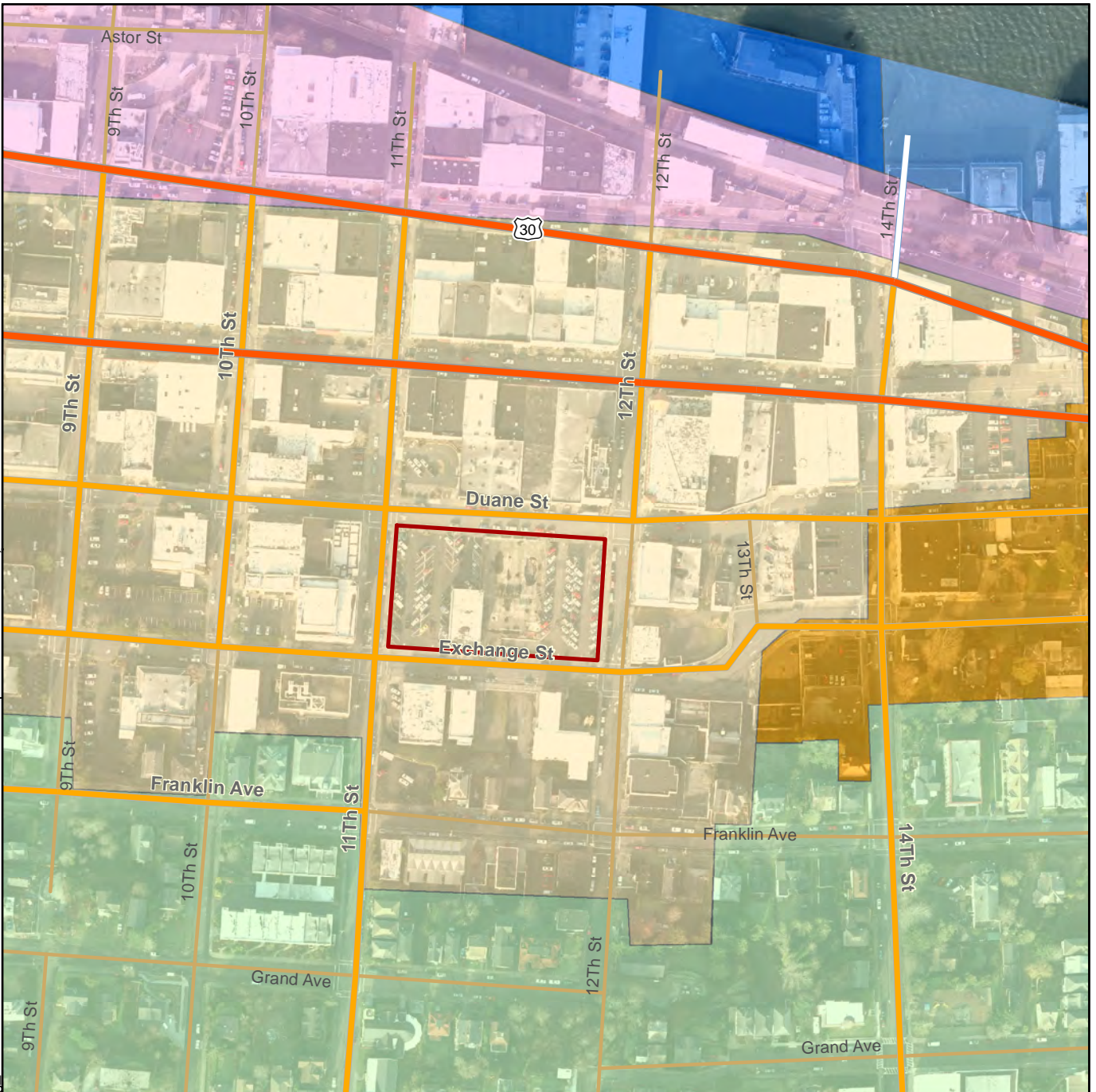
Project: Heritage Square  
 Project Location: Astoria, Oregon  
 Project Number: 2787-073-00

Portland: Date: 6/25/12 Path: P:\2012\7073\00\GINT\2787\07\300.GPJ DBT\template\Lib\template:GEOENGINEERS8.GDT\GE08\_ENVIRONMENTAL\_STANDARD

**APPENDIX B**  
**Beneficial Use of Land and Water Use Determination**  
**Supporting Documents**






Map Revised: June 22, 2012

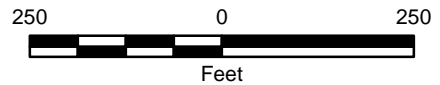
Office: PORT Path: P:\2\2787073\GIS\278707300\_Zoning\_FB1.mxd EL



 Site Boundary

**Zoning and Comprehensive Plan**

 Aquatic - Two A Development	 Commercial - Tourist
 Aquatic - Two Development	 Residential - High Density
 Commercial - Central	 Residential - Medium Density
 Commercial - General	 Shoreland - Tourist Oriented



**Notes:**

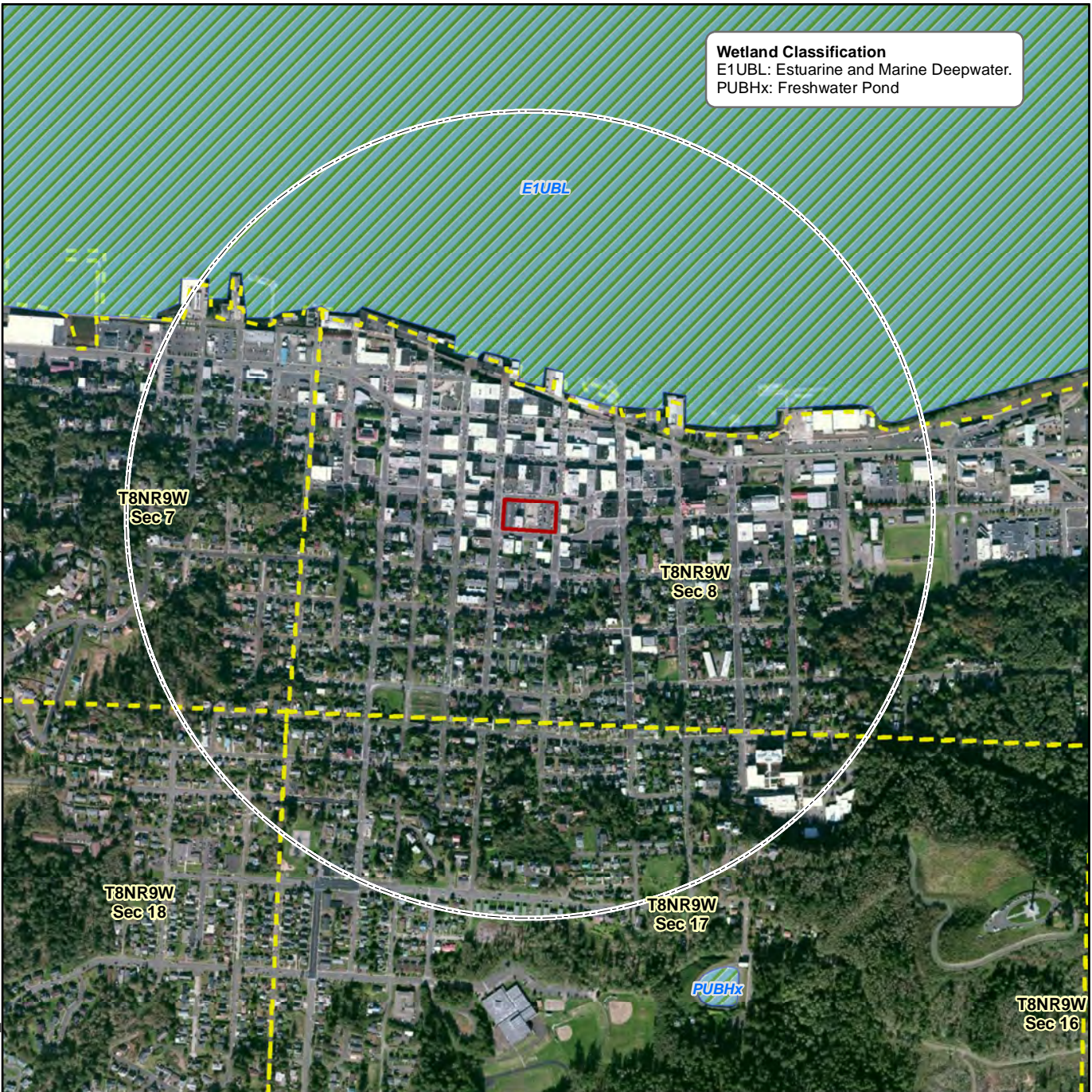
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
3. It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: Street Base Map from ESRI ArcGIS Online  
Zoning base digitized from City of Astoria Land Use and Zoning Map - 1992

Transverse Mercator, Zone 10 N North, North American Datum 1983  
North arrow oriented to grid north

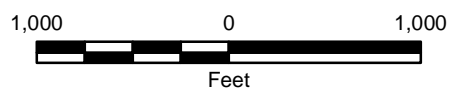
<b>Zoning and Comprehensive Plan Map</b>	
Heritage Square Astoria, Oregon	
	<b>Figure B-1</b>

Office: PORT Path: P:\2\2787073\GIS\278707300\_NWI\Wetlands\_FB2.mxd EL Map Revised: June 22, 2012



**Wetland Classification**  
 E1UBL: Estuarine and Marine Deepwater.  
 PUBHx: Freshwater Pond

-  Site Boundary
-  1/2 Mile Buffer
-  NWI Wetland
-  Section Boundary



- Notes:
- The locations of all features shown are approximate.
  - This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.
  - It is unlawful to copy or reproduce all or any part thereof, whether for personal use or resale, without permission.

Data Sources: Street Base Map from ESRI ArcGIS Online  
 NWI Data from US Fish and Wildlife  
 Transverse Mercator, Zone 10 N North, North American Datum 1983  
 North arrow oriented to grid north

<b>National Wetland Inventory Map</b>	
Heritage Square Astoria, Oregon	
	<b>Figure B-2</b>

**APPENDIX C**  
**Chemical Analytical Data and QA/QC Review**

## **APPENDIX C CHEMICAL ANALYTICAL DATA AND QA/QC REVIEW**

### **DATA QUALITY OBJECTIVES**

Consistent with U.S. Environmental Protection Agency (EPA) and Oregon Department of Environmental Quality (DEQ) risk assessment methodology, the quality assurance goal was to generate analytical data sufficient for risk assessment purposes and capable of calculating risk below the  $1 \times 10^{-6}$  risk level. For this project, method reporting limit (MRL) goals were based on DEQ cleanup criteria for residential exposure scenarios. The DEQ risk-based concentrations (RBCs) provided the reporting limit goals for the project.

### **SAMPLES**

Chain-of-custody procedures were followed during the transport of the field samples to the accredited analytical laboratory. The samples were held in cold storage pending extraction and/or analysis. The analytical results and quality control records are included in this appendix.

### **FIELD QUALITY ASSURANCE**

Field quality assurance consisted of:

- Collection and analysis of field rinseate blanks;
- Analysis of trip blanks;
- Collection and analysis of field duplicates; and
- Maintenance of chain-of-custody.

### **COLLECTION OF QUALITY CONTROL SAMPLE**

Quality control samples, including duplicates, rinseate and trip blanks, were submitted for chemical analysis during the Site Investigation (SI). The field quality control samples are discussed below.

#### ***Field Rinseate Blanks***

Two equipment rinseate blanks was collected, one from equipment used for soil collection and one from equipment used for groundwater sample collection. The analytical results for the rinseate blank were reviewed to evaluate the adequacy of the equipment decontamination procedures and the possibility of cross-contamination caused by sampling equipment. The equipment rinseate sample was collected from the distilled water used to rinse soil sampling equipment and water sampling equipment after decontamination. Gasoline and diesel were not detected at or above the MRL. Low levels of arsenic, five VOCs and naphthalene were detected in one or both the field rinseate blanks. In addition, several of the detected VOCs were also reported in the laboratory blanks.



The detected concentrations in the rinseate blank were below the most conservative RBC and do not appear to have affected the use of the analytical data.

### ***Trip Blanks***

Trip blanks accompanied the soil and water samples to the project laboratory. These blanks were prepared by the analytical laboratory with carbon-free water. The trip blanks were analyzed for VOCs by EPA Method 8260. Several VOCs were detected at or above the laboratory method detection limits, but only 2-butanone, cis-1,2-dichloroethene and naphthalene were detected above the method reporting limit. In addition, a majority of the detected VOCs were also reported in the laboratory blanks.

### ***Field Duplicates***

Field duplicates consisted of two samples collected sequentially from one sample location to assess data variability. One soil sample, one groundwater sample and one soil-gas sample duplicates were analyzed during field activities. The field duplicates were analyzed by the same analytical methods used for field samples. Relative percent differences (RPDs) for field duplicates were calculated to assess the data precision and accuracy and potential variability caused by sample handling.

Both original and duplicate results were reviewed, and RPDs were calculated when an analyte was detected in both the primary and duplicate samples. The RPDs for soil samples are included in Table C-1, groundwater samples are included in Table C-2, and soil gas samples are included in Table C-3.

The RPDs between the primary and field duplicate for soil, groundwater and soil gas was generally average to poor. Elevated RPDs are not uncommon in samples contaminated with petroleum hydrocarbons.

## **LABORATORY QUALITY ASSURANCE**

Laboratory analyses were conducted in accordance with Oregon Administrative Rules (OAR) 340-122-0218 and 340-122-0240. The following analytical methods were used for this project:

- Gasoline-range hydrocarbons using Northwest Method NWTPH-Gx;
- Diesel- and heavy oil-range hydrocarbons using Northwest Method NWTPH-Dx (with acid/silica gel cleanup);
- VOCs using EPA Method 8260B;
- PAHs using EPA Method 8270C-SIM;
- PCBs in soil and groundwater using EPA Method 8082;
- Total and dissolved concentrations of metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, nickel, selenium, and silver) in soil and groundwater using EPA 6000 Series methods; and

- Gasoline-range petroleum hydrocarbons and VOCs by EPA Method TO-15 and helium by ASTM Method D 1946.

### **Laboratory Quality Control**

The laboratory maintains an internal quality assurance program as documented in its laboratory quality assurance manual. The laboratory uses a combination of blanks, surrogate recoveries, duplicates, matrix spike recoveries, matrix spike duplicate recoveries, blank spike recoveries and blank spike duplicate recoveries to evaluate the analytical results. The laboratory also uses data quality goals for individual chemicals or groups of chemicals based on the long-term performance of the test methods.

The data quality goals were included in the laboratory report. The laboratory compared each group of samples with the existing data quality goals and noted any exceptions in the laboratory report. The laboratory quality control and data quality exceptions documented by the laboratory were reviewed by GeoEngineers.

### **Laboratory Analytical Plan**

Laboratory analyses were conducted in accordance with OAR 340-122-0218 and 340-122-0240. Method Reporting Limit (MRL) goals were based on DEQ risk-based screening criteria or standard laboratory MRLs.

For reporting purposes, GeoEngineers reported values in accordance with the DEQ Brownfield Quality Assurance Project Plan (QAPP). Section B5.4 of the QAPP notes that “U” flags should be used when “*the measured sample concentration is less than the laboratory’s reported quantitation limit (MRL)*”. For a number of parameters, the reported MRL is above applicable risk based concentrations (RBCs), ecological screening level values (SLVs) or bioaccumulation values.

For a number of parameters, the method detection limit (MDL) is lower than corresponding RBCs, SLVs and/or bioaccumulation values. The MDL is defined as lowest concentration that can be detected by an instrument with correction for the effects of sample matrix and method-specific parameters such as sample preparation. MDLs are explicitly determined as set forth in 40 CFR Part 136 and are typical MDLs for clean water samples.

The practical quantitation limit (PQL), or MRL is the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. Most organic SW-846 methods give PQLs/ MRLs. SW-846 does not stipulate how to handle organic analytes that are positively identified at a concentration below the SW-846 PQL/MRL. Generally, laboratories DO NOT report these as present.

Values below the MRL are considered estimates, as such, we have flagged all values below the MRL with a J flag.

**Analytical Data Review- Pace Analytical Laboratory Reports**

GeoEngineers reviewed the laboratory reports (specifically the case narrative) for qualifiers. As noted above, a number of analytes are flagged with a “J” designation. This flag notes that the sample concentration was detected above the MDL but below the MRL. As such, the value is considered an estimate.

A number of samples were flagged with an S or MS, noted that the spike recovery was affected due to matrix interference. In general, samples flagged for these qualifiers are considered valid as indicated by the laboratory control sample (LCS) results).

A number of the soil gas results were flagged with either a CH or L, indicating that a number of the LCS samples were above QC limits, these results have been flagged as being biased high.

For most of the Pace Laboratory reports, the blank contamination was always flagged with a J, indicating the detected concentration found in the blank was below the MRL, but above the MDL. It appears that Pace’s assumed MDL has been calculated too low. The common occurrence of various COI in associated blanks indicates that Pace may not be able to accurately report below the MRL. Samples with elevated concentrations of COI that are flagged for blank contamination are most likely biased high. In general the detected concentration was greater than 10 times the blank contamination value.

A number of samples had elevated detection limits due to high concentrations of target and non-target analyte. In addition, limited samples were noted to have matrix spike duplicate (MSD) and RPD calculations that were below the acceptance limits.

In general, the data appears to be valid for their intended use for this project. Samples flagged with blank contamination (B) should be considered estimates and are most likely biased high.

**TABLE C-1**  
**SUMMARY OF RELATIVE PERCENT DIFFERENCES**  
**FIELD DUPLICATE SAMPLES - SOIL**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Analyte	Units	DP19-2.5	SOILDUP3	Relative Percent Difference
Gasoline-Range Hydrocarbons	mg/kg	13.5	5.2	89%
Diesel-Range Hydrocarbons	mg/kg	216	439	-68%
Oil-Range Hydrocarbons	mg/kg	1,450	3,400	-80%
Arsenic	mg/kg	116	4.28	186%
Barium	mg/kg	539	939	-54%
Cadmium	mg/kg	24.2	13.7	55%
Chromium	mg/kg	50.7	32.2	45%
Lead	mg/kg	2,850	2,790	2%
Selenium	mg/kg	1.31	0.949	32%
Silver	mg/kg	0.512	0.421	20%
Mercury	mg/kg	5.3	3.3	47%
2-Butanone	mg/kg	0.0358	0.0436	-20%
Acetone	mg/kg	0.253	0.321	-24%
Tetrachloroethene	mg/kg	0.0025	0.0057	-78%
2-Methylnaphthalene	mg/kg	0.126	0.334	-90%
Acenaphthylene	mg/kg	0.169	0.86	-134%
Benz[a]anthracene	mg/kg	0.125	0.72	-141%
Benzo(a)pyrene	mg/kg	0.369	2.4	-147%
Benzo(b)fluoranthene	mg/kg	0.295	2.1	-151%
Benzo(ghi)perylene	mg/kg	0.688	2.86	-122%
Benzo(k)fluoranthene	mg/kg	0.159	0.608	-117%
Chrysene	mg/kg	0.16	0.963	-143%
Fluoranthene	mg/kg	0.149	0.848	-140%
Indeno(1,2,3-cd)pyrene	mg/kg	0.543	2.23	-122%
Naphthalene	mg/kg	0.268	0.494	-59%
Pyrene	mg/kg	0.226	1.04	-129%

**Notes:**

See Appendix C for discussion of relative percent differences (RPDs).

mg/kg = milligrams per kilogram

**TABLE C-2**  
**SUMMARY OF RELATIVE PERCENT DIFFERENCES**  
**FIELD DUPLICATE SAMPLES - GROUNDWATER**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Analyte	Units	DP07S-051512	DUP1H20-051512	Relative Percent Difference
Total Arsenic	µg/l	1.2	1.6	-29%
Total Barium	µg/l	42.1	56.6	-29%
Total Chromium	µg/l	3.7	6	-47%
Total Lead	µg/l	3.1	3.6	-15%
Dissolved Arsenic	µg/l	0.27	0.34	-23%
Dissolved Barium	µg/l	15.3	15.7	-3%
Dissolved Chromium	µg/l	0.15	0.3	-67%
Dissolved Lead	µg/l	0.099	0.22	-76%
1,2,4-Trimethylbenzene	µg/l	0.22	0.12	59%
Cis-1,2-Dichloroethene	µg/l	0.17	0.17	0%

**Notes:**

See Appendix C for discussion of relative percent differences (RPDs).

µg/l = micrograms per liter

**TABLE C-3**  
**SUMMARY OF RELATIVE PERCENT DIFFERENCES**  
**FIELD DUPLICATE SAMPLES - SOIL GAS**  
**HERITAGE SQUARE - SITE INVESTIGATION**  
**ASTORIA, OREGON**

Analyte	Units	SG-03	SG-DUP	Relative Percent Difference
Gasoline-range Hydrocarbons	µg/m <sup>3</sup>	1,270	1,220	4%
2-Butanone (MEK)	µg/m <sup>3</sup>	13.5	10.5	25%
4-Methyl-2-pentanone (MIBK)	µg/m <sup>3</sup>	2	1	31%
Acetone	µg/m <sup>3</sup>	48	35.8	29%
Benzene	µg/m <sup>3</sup>	5.1	2.4	72%
Carbon disulfide	µg/m <sup>3</sup>	4	1.7	81%
Ethylbenzene	µg/m <sup>3</sup>	2.1	1	123%
Methylene Chloride	µg/m <sup>3</sup>	6.2	1.6	118%
Naphthalene	µg/m <sup>3</sup>	4.3	2.2	65%
n-Heptane	µg/m <sup>3</sup>	44.3	19.7	77%
n-Hexane	µg/m <sup>3</sup>	3.5	2.7	26%
Propylene	µg/m <sup>3</sup>	27.8	11.5	83%
Trichlorofluoromethane	µg/m <sup>3</sup>	1	1	8%
1,2,4-Trimethylbenzene	µg/m <sup>3</sup>	3	1	82%

**Notes:**

See Appendix C for discussion of relative percent differences (RPDs).

µg/m<sup>3</sup> = micrograms per cubic meter.

June 05, 2012

Joey Hickey  
GeoEngineers  
15055 SW Sequoia Parkway  
Suite 140  
Portland, OR 97224

RE: Project: Heritage Square  
Pace Project No.: 2512253

Dear Joey Hickey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Gossett

dan.gossett@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Heritage Square

Pace Project No.: 2512253

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512253001	SG-1	Air	05/17/12 10:00	05/18/12 15:30
2512253002	SG-2	Air	05/17/12 09:40	05/18/12 15:30
2512253003	SG-3	Air	05/17/12 10:35	05/18/12 15:30
2512253004	SG-DUP	Air	05/17/12 12:00	05/18/12 15:30

## REPORT OF LABORATORY ANALYSIS

Page 2 of 2

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June 05, 2012

Dan Gosset  
Pace Analytical Seattle  
940 South Harney  
Seattle, WA 98108

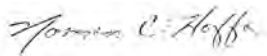
RE: Project: 2512253 GeoEngineers OR  
Pace Project No.: 10193830

Dear Dan Gosset:

Enclosed are the analytical results for sample(s) received by the laboratory on May 29, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Norman C. Hoffa

norm.hoffa@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nevada Certification #: MN\_00064

Nebraska Certification #: Pace

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512253001	SG-1	Air	05/17/12 10:00	05/29/12 10:00
2512253002	SG-2	Air	05/17/12 09:40	05/29/12 10:00
2512253003	SG-3	Air	05/17/12 10:35	05/29/12 10:00
2512253004	SG-Dup	Air	05/17/12 12:00	05/29/12 10:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2512253001	SG-1	Method 3C Gases	RTP	1
		TO-15	CJR	60
2512253002	SG-2	Method 3C Gases	RTP	1
		TO-15	SK4	60
2512253003	SG-3	Method 3C Gases	RTP	1
		TO-15	SK4	60
2512253004	SG-Dup	Method 3C Gases	RTP	1
		TO-15	SK4	60

### REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

**Sample: SG-1**      **Lab ID: 2512253001**      Collected: 05/17/12 10:00      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Method 3C AIR - Fixed Gases</b>		Analytical Method: Method 3C Gases							
Helium	<b>0.0J</b>	%	3.3		0.93		05/31/12 12:45	7440-59-7	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>22.9</b>	ug/m3	0.86	0.43	1.8		06/05/12 01:50	67-64-1	
Benzene	<b>2.3</b>	ug/m3	0.58	0.29	1.8		06/05/12 01:50	71-43-2	
Bromodichloromethane	<b>&lt;0.32</b>	ug/m3	2.4	0.32	1.8		06/05/12 01:50	75-27-4	
Bromoform	<b>&lt;1.9</b>	ug/m3	3.8	1.9	1.8		06/05/12 01:50	75-25-2	
Bromomethane	<b>&lt;0.33</b>	ug/m3	1.4	0.33	1.8		06/05/12 01:50	74-83-9	
1,3-Butadiene	<b>&lt;0.40</b>	ug/m3	0.81	0.40	1.8		06/05/12 01:50	106-99-0	
2-Butanone (MEK)	<b>5.5</b>	ug/m3	1.1	0.28	1.8		06/05/12 01:50	78-93-3	
Carbon disulfide	<b>4.7</b>	ug/m3	1.1	0.57	1.8		06/05/12 01:50	75-15-0	
Carbon tetrachloride	<b>&lt;0.58</b>	ug/m3	1.2	0.58	1.8		06/05/12 01:50	56-23-5	
Chlorobenzene	<b>&lt;0.85</b>	ug/m3	1.7	0.85	1.8		06/05/12 01:50	108-90-7	
Chloroethane	<b>&lt;0.49</b>	ug/m3	0.97	0.49	1.8		06/05/12 01:50	75-00-3	
Chloroform	<b>&lt;0.89</b>	ug/m3	1.8	0.89	1.8		06/05/12 01:50	67-66-3	
Chloromethane	<b>&lt;0.38</b>	ug/m3	0.76	0.38	1.8		06/05/12 01:50	74-87-3	
Cyclohexane	<b>&lt;0.65</b>	ug/m3	1.2	0.65	1.8		06/05/12 01:50	110-82-7	
Dibromochloromethane	<b>&lt;1.6</b>	ug/m3	3.1	1.6	1.8		06/05/12 01:50	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;1.4</b>	ug/m3	2.8	1.4	1.8		06/05/12 01:50	106-93-4	
1,2-Dichlorobenzene	<b>&lt;1.1</b>	ug/m3	2.2	1.1	1.8		06/05/12 01:50	95-50-1	
1,3-Dichlorobenzene	<b>&lt;1.1</b>	ug/m3	2.2	1.1	1.8		06/05/12 01:50	541-73-1	
1,4-Dichlorobenzene	<b>&lt;1.1</b>	ug/m3	2.2	1.1	1.8		06/05/12 01:50	106-46-7	
Dichlorodifluoromethane	<b>&lt;0.91</b>	ug/m3	1.8	0.91	1.8		06/05/12 01:50	75-71-8	
1,1-Dichloroethane	<b>&lt;0.74</b>	ug/m3	1.5	0.74	1.8		06/05/12 01:50	75-34-3	
1,2-Dichloroethane	<b>&lt;0.38</b>	ug/m3	0.74	0.38	1.8		06/05/12 01:50	107-06-2	
1,1-Dichloroethene	<b>&lt;0.73</b>	ug/m3	1.5	0.73	1.8		06/05/12 01:50	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.28</b>	ug/m3	1.5	0.28	1.8		06/05/12 01:50	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.73</b>	ug/m3	1.5	0.73	1.8		06/05/12 01:50	156-60-5	
1,2-Dichloropropane	<b>&lt;0.85</b>	ug/m3	1.7	0.85	1.8		06/05/12 01:50	78-87-5	
cis-1,3-Dichloropropene	<b>&lt;0.20</b>	ug/m3	1.7	0.20	1.8		06/05/12 01:50	10061-01-5	
trans-1,3-Dichloropropene	<b>&lt;0.83</b>	ug/m3	1.7	0.83	1.8		06/05/12 01:50	10061-02-6	
Dichlorotetrafluoroethane	<b>&lt;0.38</b>	ug/m3	2.6	0.38	1.8		06/05/12 01:50	76-14-2	
Ethyl acetate	<b>&lt;0.65</b>	ug/m3	1.3	0.65	1.8		06/05/12 01:50	141-78-6	
Ethylbenzene	<b>&lt;0.21</b>	ug/m3	1.6	0.21	1.8		06/05/12 01:50	100-41-4	
4-Ethyltoluene	<b>&lt;0.90</b>	ug/m3	1.8	0.90	1.8		06/05/12 01:50	622-96-8	
n-Heptane	<b>&lt;0.75</b>	ug/m3	1.5	0.75	1.8		06/05/12 01:50	142-82-5	
Hexachloro-1,3-butadiene	<b>&lt;2.0</b>	ug/m3	4.0	2.0	1.8		06/05/12 01:50	87-68-3	
n-Hexane	<b>21.2</b>	ug/m3	1.3	0.65	1.8		06/05/12 01:50	110-54-3	
2-Hexanone	<b>&lt;0.75</b>	ug/m3	1.5	0.75	1.8		06/05/12 01:50	591-78-6	
Methylene Chloride	<b>2.6</b>	ug/m3	1.3	0.64	1.8		06/05/12 01:50	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>&lt;0.75</b>	ug/m3	1.5	0.75	1.8		06/05/12 01:50	108-10-1	
Methyl-tert-butyl ether	<b>&lt;0.16</b>	ug/m3	1.3	0.16	1.8		06/05/12 01:50	1634-04-4	
Naphthalene	<b>&lt;0.96</b>	ug/m3	1.9	0.96	1.8		06/05/12 01:50	91-20-3	
2-Propanol	<b>&lt;0.83</b>	ug/m3	4.5	0.83	1.8		06/05/12 01:50	67-63-0	
Propylene	<b>30.0</b>	ug/m3	0.63	0.32	1.8		06/05/12 01:50	115-07-1	
Styrene	<b>&lt;0.78</b>	ug/m3	1.6	0.78	1.8		06/05/12 01:50	100-42-5	

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### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

**Sample: SG-1**      **Lab ID: 2512253001**      Collected: 05/17/12 10:00      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
1,1,2,2-Tetrachloroethane	<0.34	ug/m3	1.3	0.34	1.8		06/05/12 01:50	79-34-5	
Tetrachloroethene	34.1	ug/m3	1.2	0.61	1.8		06/05/12 01:50	127-18-4	
Tetrahydrofuran	<0.54	ug/m3	1.1	0.54	1.8		06/05/12 01:50	109-99-9	
THC as Gas	2060	ug/m3	109	54.7	1.8		06/05/12 01:50		
Toluene	2.7	ug/m3	1.4	0.69	1.8		06/05/12 01:50	108-88-3	
1,2,4-Trichlorobenzene	<0.89	ug/m3	1.8	0.89	1.8		06/05/12 01:50	120-82-1	
1,1,1-Trichloroethane	<0.99	ug/m3	2.0	0.99	1.8		06/05/12 01:50	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/m3	0.99	0.50	1.8		06/05/12 01:50	79-00-5	
Trichloroethene	1.2	ug/m3	0.99	0.50	1.8		06/05/12 01:50	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	2.1	0.40	1.8		06/05/12 01:50	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.4	ug/m3	2.9	1.4	1.8		06/05/12 01:50	76-13-1	
1,2,4-Trimethylbenzene	1.1J	ug/m3	1.8	0.90	1.8		06/05/12 01:50	95-63-6	
1,3,5-Trimethylbenzene	<0.23	ug/m3	1.8	0.23	1.8		06/05/12 01:50	108-67-8	
Vinyl acetate	<0.64	ug/m3	1.3	0.64	1.8		06/05/12 01:50	108-05-4	
Vinyl chloride	<0.23	ug/m3	0.47	0.23	1.8		06/05/12 01:50	75-01-4	
m&p-Xylene	<1.6	ug/m3	3.2	1.6	1.8		06/05/12 01:50	179601-23-1	
o-Xylene	<0.23	ug/m3	1.6	0.23	1.8		06/05/12 01:50	95-47-6	

**Sample: SG-2**      **Lab ID: 2512253002**      Collected: 05/17/12 09:40      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Method 3C AIR - Fixed Gases</b> Analytical Method: Method 3C Gases									
Helium	0.0J	%	4.3		1.19		05/31/12 13:19	7440-59-7	
<b>TO15 MSV AIR</b> Analytical Method: TO-15									
Acetone	88.8	ug/m3	0.90	0.45	1.87		06/01/12 22:40	67-64-1	
Benzene	<0.30	ug/m3	0.61	0.30	1.87		06/01/12 22:40	71-43-2	
Bromodichloromethane	<0.33	ug/m3	2.5	0.33	1.87		06/01/12 22:40	75-27-4	
Bromoform	<2.0	ug/m3	3.9	2.0	1.87		06/01/12 22:40	75-25-2	
Bromomethane	<0.34	ug/m3	1.5	0.34	1.87		06/01/12 22:40	74-83-9	
1,3-Butadiene	<0.42	ug/m3	0.84	0.42	1.87		06/01/12 22:40	106-99-0	
2-Butanone (MEK)	17.1	ug/m3	1.1	0.29	1.87		06/01/12 22:40	78-93-3	
Carbon disulfide	1.9	ug/m3	1.2	0.59	1.87		06/01/12 22:40	75-15-0	
Carbon tetrachloride	<0.60	ug/m3	1.2	0.60	1.87		06/01/12 22:40	56-23-5	
Chlorobenzene	<0.88	ug/m3	1.8	0.88	1.87		06/01/12 22:40	108-90-7	
Chloroethane	<0.50	ug/m3	1.0	0.50	1.87		06/01/12 22:40	75-00-3	
Chloroform	<0.93	ug/m3	1.9	0.93	1.87		06/01/12 22:40	67-66-3	
Chloromethane	<0.39	ug/m3	0.79	0.39	1.87		06/01/12 22:40	74-87-3	
Cyclohexane	<0.67	ug/m3	1.3	0.67	1.87		06/01/12 22:40	110-82-7	
Dibromochloromethane	<1.6	ug/m3	3.2	1.6	1.87		06/01/12 22:40	124-48-1	
1,2-Dibromoethane (EDB)	<1.5	ug/m3	2.9	1.5	1.87		06/01/12 22:40	106-93-4	
1,2-Dichlorobenzene	<1.1	ug/m3	2.3	1.1	1.87		06/01/12 22:40	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	2.3	1.1	1.87		06/01/12 22:40	541-73-1	

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## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

**Sample: SG-2**      **Lab ID: 2512253002**      Collected: 05/17/12 09:40      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,4-Dichlorobenzene	<1.1	ug/m3	2.3	1.1	1.87		06/01/12 22:40	106-46-7	
Dichlorodifluoromethane	<0.94	ug/m3	1.9	0.94	1.87		06/01/12 22:40	75-71-8	
1,1-Dichloroethane	<0.77	ug/m3	1.5	0.77	1.87		06/01/12 22:40	75-34-3	
1,2-Dichloroethane	<0.39	ug/m3	0.77	0.39	1.87		06/01/12 22:40	107-06-2	
1,1-Dichloroethene	<0.75	ug/m3	1.5	0.75	1.87		06/01/12 22:40	75-35-4	
cis-1,2-Dichloroethene	<0.29	ug/m3	1.5	0.29	1.87		06/01/12 22:40	156-59-2	
trans-1,2-Dichloroethene	<0.76	ug/m3	1.5	0.76	1.87		06/01/12 22:40	156-60-5	
1,2-Dichloropropane	<0.88	ug/m3	1.8	0.88	1.87		06/01/12 22:40	78-87-5	
cis-1,3-Dichloropropene	<0.21	ug/m3	1.7	0.21	1.87		06/01/12 22:40	10061-01-5	
trans-1,3-Dichloropropene	<0.86	ug/m3	1.7	0.86	1.87		06/01/12 22:40	10061-02-6	
Dichlorotetrafluoroethane	<0.40	ug/m3	2.7	0.40	1.87		06/01/12 22:40	76-14-2	
Ethyl acetate	<0.67	ug/m3	1.4	0.67	1.87		06/01/12 22:40	141-78-6	
Ethylbenzene	<0.22	ug/m3	1.6	0.22	1.87		06/01/12 22:40	100-41-4	
4-Ethyltoluene	2.9	ug/m3	1.9	0.94	1.87		06/01/12 22:40	622-96-8	
n-Heptane	<0.78	ug/m3	1.6	0.78	1.87		06/01/12 22:40	142-82-5	
Hexachloro-1,3-butadiene	<2.1	ug/m3	4.1	2.1	1.87		06/01/12 22:40	87-68-3	
n-Hexane	25.7	ug/m3	1.3	0.67	1.87		06/01/12 22:40	110-54-3	
2-Hexanone	3.9	ug/m3	1.6	0.78	1.87		06/01/12 22:40	591-78-6	
Methylene Chloride	3.2	ug/m3	1.3	0.66	1.87		06/01/12 22:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.6	ug/m3	1.6	0.78	1.87		06/01/12 22:40	108-10-1	
Methyl-tert-butyl ether	<0.16	ug/m3	1.4	0.16	1.87		06/01/12 22:40	1634-04-4	
Naphthalene	19.8	ug/m3	2.0	1.0	1.87		06/01/12 22:40	91-20-3	CH,L1
2-Propanol	2.9J	ug/m3	4.7	0.87	1.87		06/01/12 22:40	67-63-0	
Propylene	1.3	ug/m3	0.65	0.33	1.87		06/01/12 22:40	115-07-1	
Styrene	<0.81	ug/m3	1.6	0.81	1.87		06/01/12 22:40	100-42-5	
1,1,2,2-Tetrachloroethane	<0.35	ug/m3	1.3	0.35	1.87		06/01/12 22:40	79-34-5	
Tetrachloroethene	148	ug/m3	1.3	0.64	1.87		06/01/12 22:40	127-18-4	
Tetrahydrofuran	<0.56	ug/m3	1.1	0.56	1.87		06/01/12 22:40	109-99-9	
THC as Gas	8810	ug/m3	114	56.8	1.87		06/01/12 22:40		
Toluene	<0.72	ug/m3	1.4	0.72	1.87		06/01/12 22:40	108-88-3	
1,2,4-Trichlorobenzene	<0.93	ug/m3	1.9	0.93	1.87		06/01/12 22:40	120-82-1	
1,1,1-Trichloroethane	<1.0	ug/m3	2.1	1.0	1.87		06/01/12 22:40	71-55-6	
1,1,2-Trichloroethane	<0.52	ug/m3	1.0	0.52	1.87		06/01/12 22:40	79-00-5	
Trichloroethene	<0.52	ug/m3	1.0	0.52	1.87		06/01/12 22:40	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	2.1	0.42	1.87		06/01/12 22:40	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.5	ug/m3	3.0	1.5	1.87		06/01/12 22:40	76-13-1	
1,2,4-Trimethylbenzene	25.9	ug/m3	1.9	0.94	1.87		06/01/12 22:40	95-63-6	
1,3,5-Trimethylbenzene	7.4	ug/m3	1.9	0.24	1.87		06/01/12 22:40	108-67-8	
Vinyl acetate	<0.66	ug/m3	1.3	0.66	1.87		06/01/12 22:40	108-05-4	
Vinyl chloride	<0.24	ug/m3	0.49	0.24	1.87		06/01/12 22:40	75-01-4	
m&p-Xylene	<1.6	ug/m3	3.3	1.6	1.87		06/01/12 22:40	179601-23-1	
o-Xylene	1.5J	ug/m3	1.6	0.24	1.87		06/01/12 22:40	95-47-6	

## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

**Sample: SG-3**      **Lab ID: 2512253003**      Collected: 05/17/12 10:35      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Method 3C AIR - Fixed Gases</b>		Analytical Method: Method 3C Gases							
Helium	<b>0.0J</b>	%	4.6		1.29		05/31/12 13:36	7440-59-7	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	<b>48.0</b>	ug/m3	0.97	0.48	2.02		06/01/12 21:41	67-64-1	
Benzene	<b>5.1</b>	ug/m3	0.66	0.32	2.02		06/01/12 21:41	71-43-2	
Bromodichloromethane	<b>&lt;0.36</b>	ug/m3	2.7	0.36	2.02		06/01/12 21:41	75-27-4	
Bromoform	<b>&lt;2.1</b>	ug/m3	4.2	2.1	2.02		06/01/12 21:41	75-25-2	
Bromomethane	<b>&lt;0.37</b>	ug/m3	1.6	0.37	2.02		06/01/12 21:41	74-83-9	
1,3-Butadiene	<b>&lt;0.45</b>	ug/m3	0.91	0.45	2.02		06/01/12 21:41	106-99-0	
2-Butanone (MEK)	<b>13.5</b>	ug/m3	1.2	0.32	2.02		06/01/12 21:41	78-93-3	
Carbon disulfide	<b>4.0</b>	ug/m3	1.3	0.64	2.02		06/01/12 21:41	75-15-0	
Carbon tetrachloride	<b>&lt;0.65</b>	ug/m3	1.3	0.65	2.02		06/01/12 21:41	56-23-5	
Chlorobenzene	<b>&lt;0.95</b>	ug/m3	1.9	0.95	2.02		06/01/12 21:41	108-90-7	
Chloroethane	<b>&lt;0.55</b>	ug/m3	1.1	0.55	2.02		06/01/12 21:41	75-00-3	
Chloroform	<b>&lt;1.0</b>	ug/m3	2.0	1.0	2.02		06/01/12 21:41	67-66-3	
Chloromethane	<b>&lt;0.42</b>	ug/m3	0.85	0.42	2.02		06/01/12 21:41	74-87-3	
Cyclohexane	<b>&lt;0.73</b>	ug/m3	1.4	0.73	2.02		06/01/12 21:41	110-82-7	
Dibromochloromethane	<b>&lt;1.7</b>	ug/m3	3.5	1.7	2.02		06/01/12 21:41	124-48-1	
1,2-Dibromoethane (EDB)	<b>&lt;1.6</b>	ug/m3	3.2	1.6	2.02		06/01/12 21:41	106-93-4	
1,2-Dichlorobenzene	<b>&lt;1.2</b>	ug/m3	2.5	1.2	2.02		06/01/12 21:41	95-50-1	
1,3-Dichlorobenzene	<b>&lt;1.2</b>	ug/m3	2.5	1.2	2.02		06/01/12 21:41	541-73-1	
1,4-Dichlorobenzene	<b>&lt;1.2</b>	ug/m3	2.5	1.2	2.02		06/01/12 21:41	106-46-7	
Dichlorodifluoromethane	<b>&lt;1.0</b>	ug/m3	2.0	1.0	2.02		06/01/12 21:41	75-71-8	
1,1-Dichloroethane	<b>&lt;0.83</b>	ug/m3	1.7	0.83	2.02		06/01/12 21:41	75-34-3	
1,2-Dichloroethane	<b>&lt;0.42</b>	ug/m3	0.83	0.42	2.02		06/01/12 21:41	107-06-2	
1,1-Dichloroethene	<b>&lt;0.81</b>	ug/m3	1.6	0.81	2.02		06/01/12 21:41	75-35-4	
cis-1,2-Dichloroethene	<b>&lt;0.31</b>	ug/m3	1.6	0.31	2.02		06/01/12 21:41	156-59-2	
trans-1,2-Dichloroethene	<b>&lt;0.82</b>	ug/m3	1.6	0.82	2.02		06/01/12 21:41	156-60-5	
1,2-Dichloropropane	<b>&lt;0.95</b>	ug/m3	1.9	0.95	2.02		06/01/12 21:41	78-87-5	
cis-1,3-Dichloropropene	<b>&lt;0.22</b>	ug/m3	1.9	0.22	2.02		06/01/12 21:41	10061-01-5	
trans-1,3-Dichloropropene	<b>&lt;0.93</b>	ug/m3	1.9	0.93	2.02		06/01/12 21:41	10061-02-6	
Dichlorotetrafluoroethane	<b>&lt;0.43</b>	ug/m3	2.9	0.43	2.02		06/01/12 21:41	76-14-2	
Ethyl acetate	<b>&lt;0.73</b>	ug/m3	1.5	0.73	2.02		06/01/12 21:41	141-78-6	
Ethylbenzene	<b>2.1</b>	ug/m3	1.8	0.24	2.02		06/01/12 21:41	100-41-4	
4-Ethyltoluene	<b>&lt;1.0</b>	ug/m3	2.0	1.0	2.02		06/01/12 21:41	622-96-8	
n-Heptane	<b>3.5</b>	ug/m3	1.7	0.84	2.02		06/01/12 21:41	142-82-5	
Hexachloro-1,3-butadiene	<b>&lt;2.2</b>	ug/m3	4.4	2.2	2.02		06/01/12 21:41	87-68-3	
n-Hexane	<b>44.3</b>	ug/m3	1.5	0.73	2.02		06/01/12 21:41	110-54-3	
2-Hexanone	<b>&lt;0.84</b>	ug/m3	1.7	0.84	2.02		06/01/12 21:41	591-78-6	
Methylene Chloride	<b>6.2</b>	ug/m3	1.4	0.71	2.02		06/01/12 21:41	75-09-2	
4-Methyl-2-pentanone (MIBK)	<b>1.5J</b>	ug/m3	1.7	0.84	2.02		06/01/12 21:41	108-10-1	
Methyl-tert-butyl ether	<b>&lt;0.18</b>	ug/m3	1.5	0.18	2.02		06/01/12 21:41	1634-04-4	
Naphthalene	<b>4.3</b>	ug/m3	2.2	1.1	2.02		06/01/12 21:41	91-20-3	CH,L1
2-Propanol	<b>&lt;0.94</b>	ug/m3	5.0	0.94	2.02		06/01/12 21:41	67-63-0	
Propylene	<b>27.8</b>	ug/m3	0.71	0.35	2.02		06/01/12 21:41	115-07-1	
Styrene	<b>&lt;0.87</b>	ug/m3	1.8	0.87	2.02		06/01/12 21:41	100-42-5	

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## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

**Sample: SG-3**      **Lab ID: 2512253003**      Collected: 05/17/12 10:35      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,1,2,2-Tetrachloroethane	<0.38	ug/m3	1.4	0.38	2.02		06/01/12 21:41	79-34-5	
Tetrachloroethene	<0.69	ug/m3	1.4	0.69	2.02		06/01/12 21:41	127-18-4	
Tetrahydrofuran	<0.61	ug/m3	1.2	0.61	2.02		06/01/12 21:41	109-99-9	
THC as Gas	1270	ug/m3	123	61.4	2.02		06/01/12 21:41		
Toluene	6.2	ug/m3	1.6	0.78	2.02		06/01/12 21:41	108-88-3	
1,2,4-Trichlorobenzene	<1.0	ug/m3	2.0	1.0	2.02		06/01/12 21:41	120-82-1	
1,1,1-Trichloroethane	<1.1	ug/m3	2.2	1.1	2.02		06/01/12 21:41	71-55-6	
1,1,2-Trichloroethane	<0.57	ug/m3	1.1	0.57	2.02		06/01/12 21:41	79-00-5	
Trichloroethene	<0.57	ug/m3	1.1	0.57	2.02		06/01/12 21:41	79-01-6	
Trichlorofluoromethane	1.3J	ug/m3	2.3	0.45	2.02		06/01/12 21:41	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.6	ug/m3	3.2	1.6	2.02		06/01/12 21:41	76-13-1	
1,2,4-Trimethylbenzene	3.1	ug/m3	2.0	1.0	2.02		06/01/12 21:41	95-63-6	
1,3,5-Trimethylbenzene	0.86J	ug/m3	2.0	0.26	2.02		06/01/12 21:41	108-67-8	
Vinyl acetate	<0.72	ug/m3	1.4	0.72	2.02		06/01/12 21:41	108-05-4	
Vinyl chloride	<0.26	ug/m3	0.53	0.26	2.02		06/01/12 21:41	75-01-4	
m&p-Xylene	3.0J	ug/m3	3.6	1.8	2.02		06/01/12 21:41	179601-23-1	
o-Xylene	2.5	ug/m3	1.8	0.26	2.02		06/01/12 21:41	95-47-6	

**Sample: SG-Dup**      **Lab ID: 2512253004**      Collected: 05/17/12 12:00      Received: 05/29/12 10:00      Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Method 3C AIR - Fixed Gases</b>		Analytical Method: Method 3C Gases							
Helium	0.0J	%	3.3		0.91		05/31/12 13:44	7440-59-7	
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
Acetone	35.8	ug/m3	0.86	0.43	1.8		06/01/12 22:10	67-64-1	
Benzene	2.4	ug/m3	0.58	0.29	1.8		06/01/12 22:10	71-43-2	
Bromodichloromethane	<0.32	ug/m3	2.4	0.32	1.8		06/01/12 22:10	75-27-4	
Bromoform	<1.9	ug/m3	3.8	1.9	1.8		06/01/12 22:10	75-25-2	
Bromomethane	<0.33	ug/m3	1.4	0.33	1.8		06/01/12 22:10	74-83-9	
1,3-Butadiene	<0.40	ug/m3	0.81	0.40	1.8		06/01/12 22:10	106-99-0	
2-Butanone (MEK)	10.5	ug/m3	1.1	0.28	1.8		06/01/12 22:10	78-93-3	
Carbon disulfide	1.7	ug/m3	1.1	0.57	1.8		06/01/12 22:10	75-15-0	
Carbon tetrachloride	<0.58	ug/m3	1.2	0.58	1.8		06/01/12 22:10	56-23-5	
Chlorobenzene	<0.85	ug/m3	1.7	0.85	1.8		06/01/12 22:10	108-90-7	
Chloroethane	<0.49	ug/m3	0.97	0.49	1.8		06/01/12 22:10	75-00-3	
Chloroform	<0.89	ug/m3	1.8	0.89	1.8		06/01/12 22:10	67-66-3	
Chloromethane	<0.38	ug/m3	0.76	0.38	1.8		06/01/12 22:10	74-87-3	
Cyclohexane	<0.65	ug/m3	1.2	0.65	1.8		06/01/12 22:10	110-82-7	
Dibromochloromethane	<1.6	ug/m3	3.1	1.6	1.8		06/01/12 22:10	124-48-1	
1,2-Dibromoethane (EDB)	<1.4	ug/m3	2.8	1.4	1.8		06/01/12 22:10	106-93-4	
1,2-Dichlorobenzene	<1.1	ug/m3	2.2	1.1	1.8		06/01/12 22:10	95-50-1	
1,3-Dichlorobenzene	<1.1	ug/m3	2.2	1.1	1.8		06/01/12 22:10	541-73-1	

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## ANALYTICAL RESULTS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

Sample: **SG-Dup** Lab ID: **2512253004** Collected: 05/17/12 12:00 Received: 05/29/12 10:00 Matrix: Air

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>TO15 MSV AIR</b>		Analytical Method: TO-15							
1,4-Dichlorobenzene	<1.1	ug/m3	2.2	1.1	1.8		06/01/12 22:10	106-46-7	
Dichlorodifluoromethane	<0.91	ug/m3	1.8	0.91	1.8		06/01/12 22:10	75-71-8	
1,1-Dichloroethane	<0.74	ug/m3	1.5	0.74	1.8		06/01/12 22:10	75-34-3	
1,2-Dichloroethane	<0.38	ug/m3	0.74	0.38	1.8		06/01/12 22:10	107-06-2	
1,1-Dichloroethene	<0.73	ug/m3	1.5	0.73	1.8		06/01/12 22:10	75-35-4	
cis-1,2-Dichloroethene	<0.28	ug/m3	1.5	0.28	1.8		06/01/12 22:10	156-59-2	
trans-1,2-Dichloroethene	<0.73	ug/m3	1.5	0.73	1.8		06/01/12 22:10	156-60-5	
1,2-Dichloropropane	<0.85	ug/m3	1.7	0.85	1.8		06/01/12 22:10	78-87-5	
cis-1,3-Dichloropropene	<0.20	ug/m3	1.7	0.20	1.8		06/01/12 22:10	10061-01-5	
trans-1,3-Dichloropropene	<0.83	ug/m3	1.7	0.83	1.8		06/01/12 22:10	10061-02-6	
Dichlorotetrafluoroethane	<0.38	ug/m3	2.6	0.38	1.8		06/01/12 22:10	76-14-2	
Ethyl acetate	<0.65	ug/m3	1.3	0.65	1.8		06/01/12 22:10	141-78-6	
Ethylbenzene	0.50J	ug/m3	1.6	0.21	1.8		06/01/12 22:10	100-41-4	
4-Ethyltoluene	<0.90	ug/m3	1.8	0.90	1.8		06/01/12 22:10	622-96-8	
n-Heptane	2.7	ug/m3	1.5	0.75	1.8		06/01/12 22:10	142-82-5	
Hexachloro-1,3-butadiene	<2.0	ug/m3	4.0	2.0	1.8		06/01/12 22:10	87-68-3	
n-Hexane	19.7	ug/m3	1.3	0.65	1.8		06/01/12 22:10	110-54-3	
2-Hexanone	2.3	ug/m3	1.5	0.75	1.8		06/01/12 22:10	591-78-6	
Methylene Chloride	1.6	ug/m3	1.3	0.64	1.8		06/01/12 22:10	75-09-2	
4-Methyl-2-pentanone (MIBK)	1.1J	ug/m3	1.5	0.75	1.8		06/01/12 22:10	108-10-1	
Methyl-tert-butyl ether	<0.16	ug/m3	1.3	0.16	1.8		06/01/12 22:10	1634-04-4	
Naphthalene	2.2	ug/m3	1.9	0.96	1.8		06/01/12 22:10	91-20-3	CH,L1
2-Propanol	<0.83	ug/m3	4.5	0.83	1.8		06/01/12 22:10	67-63-0	
Propylene	11.5	ug/m3	0.63	0.32	1.8		06/01/12 22:10	115-07-1	
Styrene	<0.78	ug/m3	1.6	0.78	1.8		06/01/12 22:10	100-42-5	
1,1,2,2-Tetrachloroethane	<0.34	ug/m3	1.3	0.34	1.8		06/01/12 22:10	79-34-5	
Tetrachloroethene	30.9	ug/m3	1.2	0.61	1.8		06/01/12 22:10	127-18-4	
Tetrahydrofuran	3.0	ug/m3	1.1	0.54	1.8		06/01/12 22:10	109-99-9	
THC as Gas	1220	ug/m3	109	54.7	1.8		06/01/12 22:10		
Toluene	<0.69	ug/m3	1.4	0.69	1.8		06/01/12 22:10	108-88-3	
1,2,4-Trichlorobenzene	<0.89	ug/m3	1.8	0.89	1.8		06/01/12 22:10	120-82-1	
1,1,1-Trichloroethane	<0.99	ug/m3	2.0	0.99	1.8		06/01/12 22:10	71-55-6	
1,1,2-Trichloroethane	<0.50	ug/m3	0.99	0.50	1.8		06/01/12 22:10	79-00-5	
Trichloroethene	<0.50	ug/m3	0.99	0.50	1.8		06/01/12 22:10	79-01-6	
Trichlorofluoromethane	1.2J	ug/m3	2.1	0.40	1.8		06/01/12 22:10	75-69-4	
1,1,2-Trichlorotrifluoroethane	<1.4	ug/m3	2.9	1.4	1.8		06/01/12 22:10	76-13-1	
1,2,4-Trimethylbenzene	1.3J	ug/m3	1.8	0.90	1.8		06/01/12 22:10	95-63-6	
1,3,5-Trimethylbenzene	<0.23	ug/m3	1.8	0.23	1.8		06/01/12 22:10	108-67-8	
Vinyl acetate	<0.64	ug/m3	1.3	0.64	1.8		06/01/12 22:10	108-05-4	
Vinyl chloride	<0.23	ug/m3	0.47	0.23	1.8		06/01/12 22:10	75-01-4	
m&p-Xylene	<1.6	ug/m3	3.2	1.6	1.8		06/01/12 22:10	179601-23-1	
o-Xylene	<0.23	ug/m3	1.6	0.23	1.8		06/01/12 22:10	95-47-6	

### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

QC Batch: AIR/15008      Analysis Method: Method 3C Gases  
 QC Batch Method: Method 3C Gases      Analysis Description: METHOD 3C AIR - FIXED GASES  
 Associated Lab Samples: 2512253001, 2512253002, 2512253003, 2512253004

METHOD BLANK: 1208080      Matrix: Air  
 Associated Lab Samples: 2512253001, 2512253002, 2512253003, 2512253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Helium	%	0.0J	3.6	05/31/12 11:30	

LABORATORY CONTROL SAMPLE & LCSD: 1208081      1208082

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Helium	%	18	20.6	18.4	115	102	70-130	11	30	

SAMPLE DUPLICATE: 1208140

Parameter	Units	10192664001 Result	Dup Result	RPD	Max RPD	Qualifiers
Helium	%	ND	0.0J		30	

SAMPLE DUPLICATE: 1208287

Parameter	Units	2512253002 Result	Dup Result	RPD	Max RPD	Qualifiers
Helium	%	0.0J	0.0J		30	

### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

QC Batch: AIR/15012 Analysis Method: TO-15  
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level  
Associated Lab Samples: 2512253002, 2512253003, 2512253004

METHOD BLANK: 1208289 Matrix: Air

Associated Lab Samples: 2512253002, 2512253003, 2512253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.55	1.1	06/01/12 12:11	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	06/01/12 12:11	
1,1,2-Trichloroethane	ug/m3	<0.28	0.55	06/01/12 12:11	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.80	1.6	06/01/12 12:11	
1,1-Dichloroethane	ug/m3	<0.41	0.82	06/01/12 12:11	
1,1-Dichloroethene	ug/m3	<0.40	0.81	06/01/12 12:11	
1,2,4-Trichlorobenzene	ug/m3	<0.50	0.99	06/01/12 12:11	
1,2,4-Trimethylbenzene	ug/m3	<0.50	1.0	06/01/12 12:11	
1,2-Dibromoethane (EDB)	ug/m3	<0.78	1.6	06/01/12 12:11	
1,2-Dichlorobenzene	ug/m3	<0.61	1.2	06/01/12 12:11	
1,2-Dichloroethane	ug/m3	<0.21	0.41	06/01/12 12:11	
1,2-Dichloropropane	ug/m3	<0.47	0.94	06/01/12 12:11	
1,3,5-Trimethylbenzene	ug/m3	<0.13	1.0	06/01/12 12:11	
1,3-Butadiene	ug/m3	<0.22	0.45	06/01/12 12:11	
1,3-Dichlorobenzene	ug/m3	<0.61	1.2	06/01/12 12:11	
1,4-Dichlorobenzene	ug/m3	<0.61	1.2	06/01/12 12:11	
2-Butanone (MEK)	ug/m3	<0.16	0.60	06/01/12 12:11	
2-Hexanone	ug/m3	<0.42	0.83	06/01/12 12:11	
2-Propanol	ug/m3	<0.46	2.5	06/01/12 12:11	
4-Ethyltoluene	ug/m3	<0.50	1.0	06/01/12 12:11	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.42	0.83	06/01/12 12:11	
Acetone	ug/m3	<0.24	0.48	06/01/12 12:11	
Benzene	ug/m3	<0.16	0.32	06/01/12 12:11	
Bromodichloromethane	ug/m3	<0.18	1.4	06/01/12 12:11	
Bromoform	ug/m3	<1.0	2.1	06/01/12 12:11	
Bromomethane	ug/m3	<0.18	0.79	06/01/12 12:11	
Carbon disulfide	ug/m3	<0.32	0.63	06/01/12 12:11	
Carbon tetrachloride	ug/m3	<0.32	0.64	06/01/12 12:11	
Chlorobenzene	ug/m3	<0.47	0.94	06/01/12 12:11	
Chloroethane	ug/m3	<0.27	0.54	06/01/12 12:11	
Chloroform	ug/m3	<0.50	0.99	06/01/12 12:11	
Chloromethane	ug/m3	<0.21	0.42	06/01/12 12:11	
cis-1,2-Dichloroethene	ug/m3	<0.15	0.81	06/01/12 12:11	
cis-1,3-Dichloropropene	ug/m3	<0.11	0.92	06/01/12 12:11	
Cyclohexane	ug/m3	<0.36	0.68	06/01/12 12:11	
Dibromochloromethane	ug/m3	<0.87	1.7	06/01/12 12:11	
Dichlorodifluoromethane	ug/m3	<0.50	1.0	06/01/12 12:11	
Dichlorotetrafluoroethane	ug/m3	<0.21	1.4	06/01/12 12:11	
Ethyl acetate	ug/m3	<0.36	0.73	06/01/12 12:11	
Ethylbenzene	ug/m3	<0.12	0.88	06/01/12 12:11	
Hexachloro-1,3-butadiene	ug/m3	<1.1	2.2	06/01/12 12:11	
m&p-Xylene	ug/m3	<0.88	1.8	06/01/12 12:11	
Methyl-tert-butyl ether	ug/m3	<0.088	0.73	06/01/12 12:11	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

METHOD BLANK: 1208289

Matrix: Air

Associated Lab Samples: 2512253002, 2512253003, 2512253004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylene Chloride	ug/m3	<0.35	0.71	06/01/12 12:11	
n-Heptane	ug/m3	<0.42	0.83	06/01/12 12:11	
n-Hexane	ug/m3	<0.36	0.72	06/01/12 12:11	
Naphthalene	ug/m3	<0.53	1.1	06/01/12 12:11	
o-Xylene	ug/m3	<0.13	0.88	06/01/12 12:11	
Propylene	ug/m3	<0.18	0.35	06/01/12 12:11	
Styrene	ug/m3	<0.43	0.87	06/01/12 12:11	
Tetrachloroethene	ug/m3	<0.34	0.69	06/01/12 12:11	
Tetrahydrofuran	ug/m3	<0.30	0.60	06/01/12 12:11	
THC as Gas	ug/m3	<30.4	60.8	06/01/12 12:11	
Toluene	ug/m3	<0.38	0.77	06/01/12 12:11	
trans-1,2-Dichloroethene	ug/m3	<0.40	0.81	06/01/12 12:11	
trans-1,3-Dichloropropene	ug/m3	<0.46	0.92	06/01/12 12:11	
Trichloroethene	ug/m3	<0.28	0.55	06/01/12 12:11	
Trichlorofluoromethane	ug/m3	<0.22	1.1	06/01/12 12:11	
Vinyl acetate	ug/m3	<0.36	0.71	06/01/12 12:11	
Vinyl chloride	ug/m3	<0.13	0.26	06/01/12 12:11	

LABORATORY CONTROL SAMPLE: 1208290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	64.3	116	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	67.1	96	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	66.0	119	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	90.7	116	65-132	
1,1-Dichloroethane	ug/m3	41.2	40.0	97	67-132	
1,1-Dichloroethene	ug/m3	40.3	38.3	95	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	141	187	48-150	CH,L3
1,2,4-Trimethylbenzene	ug/m3	50	49.3	99	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	70.7	91	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	61.8	101	71-132	
1,2-Dichloroethane	ug/m3	41.2	36.6	89	70-131	
1,2-Dichloropropane	ug/m3	47	55.5	118	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	47.3	95	70-133	
1,3-Butadiene	ug/m3	22.5	21.5	95	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	60.0	98	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	61.0	100	72-131	
2-Butanone (MEK)	ug/m3	30	31.4	105	69-131	
2-Hexanone	ug/m3	41.7	46.4	111	71-134	
2-Propanol	ug/m3	25	27.2	109	72-132	
4-Ethyltoluene	ug/m3	50	48.1	96	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	41.2	99	69-135	
Acetone	ug/m3	24.2	25.7	106	61-139	
Benzene	ug/m3	32.5	35.1	108	69-134	
Bromodichloromethane	ug/m3	68.2	60.8	89	71-130	

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### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

LABORATORY CONTROL SAMPLE: 1208290

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/m3	105	106	101	70-130	
Bromomethane	ug/m3	39.5	34.7	88	69-125	
Carbon disulfide	ug/m3	31.7	35.7	113	66-131	
Carbon tetrachloride	ug/m3	64	56.5	88	68-128	
Chlorobenzene	ug/m3	46.8	42.1	90	75-128	
Chloroethane	ug/m3	26.8	24.7	92	66-131	
Chloroform	ug/m3	49.7	42.9	86	68-132	
Chloromethane	ug/m3	21	20.9	99	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	35.9	89	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	43.8	95	74-134	
Cyclohexane	ug/m3	35	37.8	108	67-136	
Dibromochloromethane	ug/m3	86.6	104	120	69-131	
Dichlorodifluoromethane	ug/m3	50.3	54.1	107	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	67.3	95	66-130	
Ethyl acetate	ug/m3	36.6	35.9	98	71-131	
Ethylbenzene	ug/m3	44.2	39.9	90	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	234	216	41-150	CH,L3
m&p-Xylene	ug/m3	88.3	110	125	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	35.8	98	70-132	
Methylene Chloride	ug/m3	35.3	35.2	100	73-134	
n-Heptane	ug/m3	41.7	49.5	119	70-134	
n-Hexane	ug/m3	35.8	44.8	125	65-133	
Naphthalene	ug/m3	53.3	138	259	57-150	CH,L1
o-Xylene	ug/m3	44.2	39.6	90	69-138	
Propylene	ug/m3	17.5	15.8	90	70-134	
Styrene	ug/m3	43.3	42.3	98	72-132	
Tetrachloroethene	ug/m3	69	78.0	113	70-130	
Tetrahydrofuran	ug/m3	30	30.7	102	74-128	
THC as Gas	ug/m3	3030	3040	100	66-131	
Toluene	ug/m3	38.3	45.5	119	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	39.6	98	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	45.5	99	73-130	
Trichloroethene	ug/m3	54.6	63.1	115	72-131	
Trichlorofluoromethane	ug/m3	57.1	49.9	87	66-129	
Vinyl acetate	ug/m3	35.8	35.8	100	71-131	
Vinyl chloride	ug/m3	26	23.1	89	70-131	

### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

QC Batch: AIR/15025

Analysis Method: TO-15

QC Batch Method: TO-15

Analysis Description: TO15 MSV AIR Low Level

Associated Lab Samples: 2512253001

METHOD BLANK: 1209836

Matrix: Air

Associated Lab Samples: 2512253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.55	1.1	06/04/12 21:48	
1,1,2,2-Tetrachloroethane	ug/m3	<0.19	0.70	06/04/12 21:48	
1,1,2-Trichloroethane	ug/m3	<0.28	0.55	06/04/12 21:48	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.80	1.6	06/04/12 21:48	
1,1-Dichloroethane	ug/m3	<0.41	0.82	06/04/12 21:48	
1,1-Dichloroethene	ug/m3	<0.40	0.81	06/04/12 21:48	
1,2,4-Trichlorobenzene	ug/m3	<0.50	0.99	06/04/12 21:48	
1,2,4-Trimethylbenzene	ug/m3	<0.50	1.0	06/04/12 21:48	
1,2-Dibromoethane (EDB)	ug/m3	<0.78	1.6	06/04/12 21:48	
1,2-Dichlorobenzene	ug/m3	<0.61	1.2	06/04/12 21:48	
1,2-Dichloroethane	ug/m3	<0.21	0.41	06/04/12 21:48	
1,2-Dichloropropane	ug/m3	<0.47	0.94	06/04/12 21:48	
1,3,5-Trimethylbenzene	ug/m3	<0.13	1.0	06/04/12 21:48	
1,3-Butadiene	ug/m3	<0.22	0.45	06/04/12 21:48	
1,3-Dichlorobenzene	ug/m3	<0.61	1.2	06/04/12 21:48	
1,4-Dichlorobenzene	ug/m3	<0.61	1.2	06/04/12 21:48	
2-Butanone (MEK)	ug/m3	<0.16	0.60	06/04/12 21:48	
2-Hexanone	ug/m3	<0.42	0.83	06/04/12 21:48	
2-Propanol	ug/m3	<0.46	2.5	06/04/12 21:48	
4-Ethyltoluene	ug/m3	<0.50	1.0	06/04/12 21:48	
4-Methyl-2-pentanone (MIBK)	ug/m3	<0.42	0.83	06/04/12 21:48	
Acetone	ug/m3	<0.24	0.48	06/04/12 21:48	
Benzene	ug/m3	<0.16	0.32	06/04/12 21:48	
Bromodichloromethane	ug/m3	<0.18	1.4	06/04/12 21:48	
Bromoform	ug/m3	<1.0	2.1	06/04/12 21:48	
Bromomethane	ug/m3	<0.18	0.79	06/04/12 21:48	
Carbon disulfide	ug/m3	<0.32	0.63	06/04/12 21:48	
Carbon tetrachloride	ug/m3	<0.32	0.64	06/04/12 21:48	
Chlorobenzene	ug/m3	<0.47	0.94	06/04/12 21:48	
Chloroethane	ug/m3	<0.27	0.54	06/04/12 21:48	
Chloroform	ug/m3	<0.50	0.99	06/04/12 21:48	
Chloromethane	ug/m3	<0.21	0.42	06/04/12 21:48	
cis-1,2-Dichloroethene	ug/m3	<0.15	0.81	06/04/12 21:48	
cis-1,3-Dichloropropene	ug/m3	<0.11	0.92	06/04/12 21:48	
Cyclohexane	ug/m3	<0.36	0.68	06/04/12 21:48	
Dibromochloromethane	ug/m3	<0.87	1.7	06/04/12 21:48	
Dichlorodifluoromethane	ug/m3	<0.50	1.0	06/04/12 21:48	
Dichlorotetrafluoroethane	ug/m3	<0.21	1.4	06/04/12 21:48	
Ethyl acetate	ug/m3	<0.36	0.73	06/04/12 21:48	
Ethylbenzene	ug/m3	<0.12	0.88	06/04/12 21:48	
Hexachloro-1,3-butadiene	ug/m3	<1.1	2.2	06/04/12 21:48	
m&p-Xylene	ug/m3	<0.88	1.8	06/04/12 21:48	
Methyl-tert-butyl ether	ug/m3	<0.088	0.73	06/04/12 21:48	

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### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

METHOD BLANK: 1209836

Matrix: Air

Associated Lab Samples: 2512253001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Methylene Chloride	ug/m3	<0.35	0.71	06/04/12 21:48	
n-Heptane	ug/m3	<0.42	0.83	06/04/12 21:48	
n-Hexane	ug/m3	<0.36	0.72	06/04/12 21:48	
Naphthalene	ug/m3	<0.53	1.1	06/04/12 21:48	
o-Xylene	ug/m3	<0.13	0.88	06/04/12 21:48	
Propylene	ug/m3	<0.18	0.35	06/04/12 21:48	
Styrene	ug/m3	<0.43	0.87	06/04/12 21:48	
Tetrachloroethene	ug/m3	<0.34	0.69	06/04/12 21:48	
Tetrahydrofuran	ug/m3	<0.30	0.60	06/04/12 21:48	
THC as Gas	ug/m3	<30.4	60.8	06/04/12 21:48	
Toluene	ug/m3	<0.38	0.77	06/04/12 21:48	
trans-1,2-Dichloroethene	ug/m3	<0.40	0.81	06/04/12 21:48	
trans-1,3-Dichloropropene	ug/m3	<0.46	0.92	06/04/12 21:48	
Trichloroethene	ug/m3	<0.28	0.55	06/04/12 21:48	
Trichlorofluoromethane	ug/m3	<0.22	1.1	06/04/12 21:48	
Vinyl acetate	ug/m3	<0.36	0.71	06/04/12 21:48	
Vinyl chloride	ug/m3	<0.13	0.26	06/04/12 21:48	

LABORATORY CONTROL SAMPLE: 1209837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	47.9	86	72-129	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	64.8	93	73-131	
1,1,2-Trichloroethane	ug/m3	55.5	45.1	81	71-128	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	64.3	82	65-132	
1,1-Dichloroethane	ug/m3	41.2	36.2	88	67-132	
1,1-Dichloroethene	ug/m3	40.3	35.4	88	68-134	
1,2,4-Trichlorobenzene	ug/m3	75.5	68.6	91	48-150	
1,2,4-Trimethylbenzene	ug/m3	50	49.8	100	72-127	
1,2-Dibromoethane (EDB)	ug/m3	78.1	72.8	93	75-130	
1,2-Dichlorobenzene	ug/m3	61.2	67.7	111	71-132	
1,2-Dichloroethane	ug/m3	41.2	34.9	85	70-131	
1,2-Dichloropropane	ug/m3	47	40.8	87	73-130	
1,3,5-Trimethylbenzene	ug/m3	50	50.2	100	70-133	
1,3-Butadiene	ug/m3	22.5	22.1	98	69-132	
1,3-Dichlorobenzene	ug/m3	61.2	68.1	111	71-128	
1,4-Dichlorobenzene	ug/m3	61.2	61.0	100	72-131	
2-Butanone (MEK)	ug/m3	30	29.5	98	69-131	
2-Hexanone	ug/m3	41.7	46.0	110	71-134	
2-Propanol	ug/m3	25	26.5	106	72-132	
4-Ethyltoluene	ug/m3	50	59.3	119	71-129	
4-Methyl-2-pentanone (MIBK)	ug/m3	41.7	46.8	112	69-135	
Acetone	ug/m3	24.2	24.7	102	61-139	
Benzene	ug/m3	32.5	28.5	88	69-134	
Bromodichloromethane	ug/m3	68.2	64.7	95	71-130	

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### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

LABORATORY CONTROL SAMPLE: 1209837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/m3	105	119	113	70-130	
Bromomethane	ug/m3	39.5	33.0	84	69-125	
Carbon disulfide	ug/m3	31.7	33.2	105	66-131	
Carbon tetrachloride	ug/m3	64	71.1	111	68-128	
Chlorobenzene	ug/m3	46.8	39.5	84	75-128	
Chloroethane	ug/m3	26.8	23.8	89	66-131	
Chloroform	ug/m3	49.7	41.6	84	68-132	
Chloromethane	ug/m3	21	19.5	93	60-139	
cis-1,2-Dichloroethene	ug/m3	40.3	36.8	91	73-130	
cis-1,3-Dichloropropene	ug/m3	46.2	50.7	110	74-134	
Cyclohexane	ug/m3	35	33.6	96	67-136	
Dibromochloromethane	ug/m3	86.6	87.4	101	69-131	
Dichlorodifluoromethane	ug/m3	50.3	46.9	93	67-131	
Dichlorotetrafluoroethane	ug/m3	71.1	67.3	95	66-130	
Ethyl acetate	ug/m3	36.6	36.5	100	71-131	
Ethylbenzene	ug/m3	44.2	45.8	104	69-139	
Hexachloro-1,3-butadiene	ug/m3	108	101	93	41-150	
m&p-Xylene	ug/m3	88.3	88.3	100	66-137	
Methyl-tert-butyl ether	ug/m3	36.7	35.3	96	70-132	
Methylene Chloride	ug/m3	35.3	29.6	84	73-134	
n-Heptane	ug/m3	41.7	40.7	98	70-134	
n-Hexane	ug/m3	35.8	31.6	88	65-133	
Naphthalene	ug/m3	53.3	48.5	91	57-150	
o-Xylene	ug/m3	44.2	42.4	96	69-138	
Propylene	ug/m3	17.5	17.4	99	70-134	
Styrene	ug/m3	43.3	51.1	118	72-132	
Tetrachloroethene	ug/m3	69	58.2	84	70-130	
Tetrahydrofuran	ug/m3	30	33.0	110	74-128	
THC as Gas	ug/m3	3030	3290	108	66-131	
Toluene	ug/m3	38.3	33.5	87	71-132	
trans-1,2-Dichloroethene	ug/m3	40.3	37.3	92	72-128	
trans-1,3-Dichloropropene	ug/m3	46.2	55.6	120	73-130	
Trichloroethene	ug/m3	54.6	47.0	86	72-131	
Trichlorofluoromethane	ug/m3	57.1	47.3	83	66-129	
Vinyl acetate	ug/m3	35.8	36.8	103	71-131	
Vinyl chloride	ug/m3	26	23.8	91	70-131	

SAMPLE DUPLICATE: 1210748

Parameter	Units	10193872002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.82		25	
1,1,1,2-Tetrachloroethane	ug/m3	ND	<0.28		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.42		25	
1,1,2-Trichlorotrifluoroethane	ug/m3	ND	<1.2		25	
1,1-Dichloroethane	ug/m3	ND	<0.61		25	
1,1-Dichloroethene	ug/m3	ND	<0.60		25	
1,2,4-Trichlorobenzene	ug/m3	ND	<0.74		25	

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### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

SAMPLE DUPLICATE: 1210748

Parameter	Units	10193872002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/m3	3.5	3.5	.4	25	
1,2-Dibromoethane (EDB)	ug/m3	ND	<1.2		25	
1,2-Dichlorobenzene	ug/m3	ND	<0.91		25	
1,2-Dichloroethane	ug/m3	ND	<0.31		25	
1,2-Dichloropropane	ug/m3	ND	<0.70		25	
1,3,5-Trimethylbenzene	ug/m3	3.0	2.8	7	25	
1,3-Butadiene	ug/m3	ND	<0.34		25	
1,3-Dichlorobenzene	ug/m3	ND	<0.91		25	
1,4-Dichlorobenzene	ug/m3	ND	<0.91		25	
2-Butanone (MEK)	ug/m3	ND	<0.23		25	
2-Hexanone	ug/m3	ND	<0.62		25	
2-Propanol	ug/m3	ND	<0.69		25	
4-Ethyltoluene	ug/m3	ND	2.3		25	
4-Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.62		25	
Acetone	ug/m3	4.2	4.1	.4	25	
Benzene	ug/m3	2.0	2.1	3	25	
Bromodichloromethane	ug/m3	ND	<0.26		25	
Bromoform	ug/m3	ND	<1.6		25	
Bromomethane	ug/m3	ND	<0.27		25	
Carbon disulfide	ug/m3	ND	<0.47		25	
Carbon tetrachloride	ug/m3	ND	<0.48		25	
Chlorobenzene	ug/m3	ND	<0.70		25	
Chloroethane	ug/m3	ND	<0.40		25	
Chloroform	ug/m3	ND	<0.74		25	
Chloromethane	ug/m3	ND	0.54J		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.23		25	
cis-1,3-Dichloropropene	ug/m3	ND	<0.17		25	
Cyclohexane	ug/m3	21.1	21.3	1	25	
Dibromochloromethane	ug/m3	ND	<1.3		25	
Dichlorodifluoromethane	ug/m3	1.5	1.6	3	25	
Dichlorotetrafluoroethane	ug/m3	ND	<0.32		25	
Ethyl acetate	ug/m3	ND	<0.53		25	
Ethylbenzene	ug/m3	ND	0.96J		25	
Hexachloro-1,3-butadiene	ug/m3	ND	<1.6		25	
m&p-Xylene	ug/m3	8.9	8.5	5	25	
Methyl-tert-butyl ether	ug/m3	ND	<0.13		25	
Methylene Chloride	ug/m3	1.4	1.3	4	25	
n-Heptane	ug/m3	ND	<0.62		25	
n-Hexane	ug/m3	5.4	5.5	2	25	
Naphthalene	ug/m3	ND	<0.79		25	
o-Xylene	ug/m3	3.7	3.7	1	25	
Propylene	ug/m3	ND	<0.26		25	
Styrene	ug/m3	ND	<0.65		25	
Tetrachloroethene	ug/m3	ND	<0.51		25	
Tetrahydrofuran	ug/m3	ND	<0.45		25	
THC as Gas	ug/m3	439	447	2	25	
Toluene	ug/m3	5.4	5.4	.09	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.60		25	

### QUALITY CONTROL DATA

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

SAMPLE DUPLICATE: 1210748

Parameter	Units	10193872002 Result	Dup Result	RPD	Max RPD	Qualifiers
trans-1,3-Dichloropropene	ug/m3	ND	<0.69		25	
Trichloroethene	ug/m3	ND	<0.42		25	
Trichlorofluoromethane	ug/m3	ND	1.2J		25	
Vinyl acetate	ug/m3	ND	<0.53		25	
Vinyl chloride	ug/m3	ND	<0.19		25	

## QUALIFIERS

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2512253 GeoEngineers OR

Pace Project No.: 10193830

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512253001	SG-1	Method 3C Gases	AIR/15008		
2512253002	SG-2	Method 3C Gases	AIR/15008		
2512253003	SG-3	Method 3C Gases	AIR/15008		
2512253004	SG-Dup	Method 3C Gases	AIR/15008		
2512253001	SG-1	TO-15	AIR/15025		
2512253002	SG-2	TO-15	AIR/15012		
2512253003	SG-3	TO-15	AIR/15012		
2512253004	SG-Dup	TO-15	AIR/15012		



Laboratory: Pace Analytical Services, 940 S Hamey Street, Seattle, Washington

# CHAIN OF CUSTODY REPORT

Work Order #:

CLIENT: GeoEngineers REPORT TO: Joey Hickey ADDRESS: 15055 SW Sequoia Parkway, Suite 140 Portland, Oregon 97224 PHONE: 503-624-9274      FAX: 503-620-5940				INVOICE TO: GeoEngineers Attention: Joey Hickey 15055 SW Sequoia Parkway, Suite 140 Portland, Oregon 97224 P.O. NUMBER:				<b>TURNAROUND REQUEST in Business Days *</b> Organic and Inorganic Analyses <input checked="" type="checkbox"/> 10 <input type="checkbox"/> 7 <input type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1 Petroleum Hydrocarbon Analyses <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 4 <input type="checkbox"/> 3 <input type="checkbox"/> 2 <input type="checkbox"/> 1 <input type="checkbox"/> <1							
PROJECT NAME: Heritage Square PROJECT NUMBER: 2787-073-00 SAMPLED BY: Cris Watkins				PRESERVATIVE				OTHER Specify: _____ <small>* Turnaround Requests less than standard may incur Rush Charges.</small>							
				REQUESTED ANALYSES											
CLIENT SAMPLE IDENTIFICATION		SAMPLE COLLECTION		HOLD	TPH-GX	VOCs	Helium	MATRIX (W, S, O)	# OF CONT.	COMMENTS	LAB WO ID				
		DATE	TIME												
1	SG-1	5/17/2012	1000		x	x	x	AIR	1	CAN 1299					
2	SG-2	5/17/2012	940		x	x	x	AIR	1	CAN 1158					
3	SG-3	5/17/2012	1035		x	x	x	AIR	1						
4	SG-DUP	5/17/2012	1200		x	x	x	AIR	1	CAN 1772					
5															
6															
7															
8															
9															
10															
11															
12															
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15															
16															
17															
18															
19															
20															
RELINQUISHED BY: PRINT NAME: _____ FIRM: _____				DATE: _____ TIME: _____				RECEIVED BY: PRINT NAME: _____ FIRM: _____				DATE: _____ TIME: _____			
RELINQUISHED BY: <b>PCS</b> FIRM: _____				DATE: <b>05/18/12</b> TIME: <b>1530</b>				RECEIVED BY: <b>Colette Weaver</b> FIRM: <b>PACE</b>				DATE: <b>05/18/12</b> TIME: <b>1530</b>			
ADDITIONAL REMARKS: This COC replaces the original COC from May 17, 2012. Revised COC includes laboratory name and sampling analysis.												Metals samples field filtered? No (all)		TEMP:	
COC Rev 1, 5/04												If not "all", specify:		PAGE 1 OF 1	

Sample Container Count

2512253



CLIENT: Geo Engineers

COC PAGE 1 of 1  
COC ID# \_\_\_\_\_

Trip Blank(s) Provided?  
Y / N

Sample Line Item	VG9H	AG1H	AG1U	BP1U	BP2U	BP3U	BP3N	BP3S	WGKU	WGFU	WG2U	DG9M	DG9B	VG9W	VSG	U	Comments
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

AG1H	1 liter HCL amber glass	BP2S	500mL H2SO4 plastic	JGFU	4 oz amber glass soil jar
AG1U	1liter unpreserved amber glass	BP2U	500mL unpreserved plastic	WGKU	8 oz clear glass soil jar
AG2S	500mL H2SO4 amber glass	BP2Z	500mL NaOH, Zn Ac	WGFU	4 oz clear glass soil jar
AG2U	500mL unpreserved amber glass	BP3C	250mL NaOH plastic	WG2U	2 oz clear glass soil jar
AG3S	250mL H2SO4 amber glass	BP3N	250mL HNO3 plastic	JGFM	4 oz amber glass soil jar with MeOH
BG1H	1 liter HCL clear glass	BP3S	250mL H2SO4 plastic	VG9U	40mL unpreserved clear vial
BG1U	1 liter unpreserved glass	BP3U	250mL unpreserved plastic	VG9W	40mL clear vial pre-weighted with DI water
BP1N	1 liter HNO3 plastic	DG9B	40mL Na Bisulfate clear vial	VSG	Headspace septa vial
BP1S	1 liter H2SO4 plastic	DG9H	40mL HCL amber vial	VG9H	40mL HCL clear vial
BP1U	1 liter unpreserved plastic	DG9M	40mL MeOH clear vial	WGFU	4oz wide jar w/hexane wipe
BP1Z	1 liter NaOH, Zn, Ac	DG9T	40mL Na Thio amber vial	VG9T	40mL Na Thio. clear vial
BP2N	500mL HNO3 plastic	DG9U	40mL unpreserved amber vial	ZPLC	Ziploc Bag
BP2O	500mL NaOH plastic		Wipe/Swab	U	Summa Can



Sample Condition Upon Receipt

Client Name: GeoEngineers Project # 2512253

Courier: [ ] Fed Ex [ ] UPS [ ] USPS [ ] Client [ ] Commercial [ ] Pace Other PCS

Tracking #: 1352601

Custody Seal on Cooler/Box Present: [ ] Yes [x] No Seals intact: [ ] Yes [ ] No

Packing Material: [x] Bubble Wrap [ ] Bubble Bags [ ] None [ ] Other Temp. Blank Yes [ ] No [x]

Thermometer Used 132013 GC 101731962 226099 Type of Ice: Wet Blue [x] None [ ] Samples on ice, cooling process has begun

Cooler Temperature amb Temp should be above freezing <= 6°C

Biological Tissue is Frozen: Yes [ ] No [x] Comments:

Date and Initials of person examining contents: 051812CW

Table with 17 rows of checklist items (Chain of Custody Present, Samples Arrived within Hold Time, etc.) and checkboxes.

not PACE Seattle provided

Client Notification/ Resolution: Person Contacted: Date/Time: Field Data Required? Y / N

Project Manager Review: [Signature] Date: 5/23

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office ( i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



June 18, 2012

Joey Hickey  
GeoEngineers  
15055 SW Sequoia Parkway  
Suite 140  
Portland, OR 97224

RE: Project: Heritage Square  
Pace Project No.: 2512229

Dear Joey Hickey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Gossett

dan.gossett@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..

## CERTIFICATIONS

Project: Heritage Square

Pace Project No.: 2512229

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

Iowa Certification #: 368

Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace

Montana Certification #: MT CERT0092

Nebraska Certification #: Pace

Nevada Certification #: MN\_00064

New Jersey Certification #: MN-002

New Mexico Certification #: Pace

New York Certification #: 11647

North Carolina Certification #: 530

North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

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### Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

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## SAMPLE SUMMARY

Project: Heritage Square

Pace Project No.: 2512229

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512229001	DP12-051712	Water	05/17/12 17:00	05/19/12 09:00
2512229002	DP13-051712	Water	05/17/12 13:00	05/19/12 09:00
2512229003	DP14-051712	Water	05/17/12 18:00	05/19/12 09:00
2512229004	DP15-051712	Water	05/17/12 18:30	05/19/12 09:00
2512229005	DP16-051712	Water	05/17/12 15:30	05/19/12 09:00
2512229006	DP17-051712	Water	05/17/12 16:00	05/19/12 09:00
2512229007	DP18-051712	Water	05/17/12 16:30	05/19/12 09:00
2512229008	DP19-051712	Water	05/17/12 17:30	05/19/12 09:00
2512229009	TB1-051812	Water	05/18/12 09:00	05/19/12 09:00
2512229010	TB2-051812	Water	05/18/12 09:05	05/19/12 09:00
2512229011	TB3-051812	Water	05/18/12 09:10	05/19/12 09:00
2512229012	TB4-051812	Water	05/18/12 09:15	05/19/12 09:00
2512229013	TB5-051812	Water	05/18/12 09:20	05/19/12 09:00
2512229014	TB6-051812	Water	05/18/12 09:25	05/19/12 09:00
2512229015	TB7-051812	Water	05/18/12 09:30	05/19/12 09:00
2512229016	TB8-051812	Water	05/18/12 09:35	05/19/12 09:00
2512229017	TB9-051812	Water	05/18/12 16:30	05/19/12 09:00
2512229018	TB10-051812	Water	05/18/12 16:35	05/19/12 09:00
2512229019	Rinsate Soil	Water	05/18/12 16:15	05/19/12 09:00
2512229020	Rinsate Water	Water	05/18/12 16:00	05/19/12 09:00
2512229021	DP05-2	Solid	05/17/12 07:55	05/19/12 09:00
2512229022	DP05-10	Solid	05/17/12 08:05	05/19/12 09:00
2512229023	DP05-15	Solid	05/17/12 08:15	05/19/12 09:00
2512229024	DP12-1.5	Solid	05/17/12 13:45	05/19/12 09:00
2512229025	DP13-2	Solid	05/17/12 11:30	05/19/12 09:00
2512229026	DP14-2.5	Solid	05/17/12 13:15	05/19/12 09:00
2512229027	DP15-1.5	Solid	05/17/12 13:11	05/19/12 09:00
2512229028	DP16-3	Solid	05/17/12 11:50	05/19/12 09:00
2512229029	DP17-1.5	Solid	05/17/12 14:15	05/19/12 09:00
2512229030	DP18-1.5	Solid	05/17/12 12:32	05/19/12 09:00
2512229031	DP19-2.5	Solid	05/17/12 13:40	05/19/12 09:00
2512229032	SOILDUP3	Solid	05/17/12 16:00	05/19/12 09:00

## REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square

Pace Project No.: 2512229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512229001	DP12-051712	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	YT1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512229002	DP13-051712	EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	71	PASI-S
2512229003	DP14-051712	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
2512229004	DP15-051712	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
2512229005	DP16-051712	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512229006	DP17-051712	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512229007	DP18-051712	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512229008	DP19-051712	EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	71	PASI-S
2512229009	TB1-051812	NWTPH-Gx	LPM	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square  
Pace Project No.: 2512229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512229010	TB2-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229011	TB3-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229012	TB4-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229013	TB5-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229014	TB6-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229015	TB7-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229016	TB8-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229017	TB9-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229018	TB10-051812	NWTPH-Gx	LNH	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512229019	Rinsate Soil	NWTPH-Gx	LNH	2	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 5030B/8260	LPM	71	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
2512229020	Rinsate Water	EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 5030B/8260	LPM	71	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
2512229021	DP05-2	EPA 5030B/8260	LPM	71	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
EPA 7471	BGA	1	PASI-S		

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square  
Pace Project No.: 2512229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512229023	DP05-15	ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
2512229024	DP12-1.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
2512229025	DP13-2	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
2512229026	DP14-2.5	EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
2512229027	DP15-1.5	EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
2512229028	DP16-3	ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square

Pace Project No.: 2512229

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512229029	DP17-1.5	EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
2512229030	DP18-1.5	ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
2512229031	DP19-2.5	ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
2512229032	SOILDUP3	EPA 8260	LPM	73	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
EPA 8270 by SIM	MTJ	20	PASI-S		
EPA 8260	LPM	73	PASI-S		
ASTM D2974-87	RAB	1	PASI-S		

### REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP12-051712      Lab ID: 2512229001      Collected: 05/17/12 17:00      Received: 05/19/12 09:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.043	mg/L	0.085	0.043	1	05/31/12 09:50	05/31/12 20:37		
Motor Oil Range SG	<0.21	mg/L	0.43	0.21	1	05/31/12 09:50	05/31/12 20:37	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	105 %		50-150		1	05/31/12 09:50	05/31/12 20:37	630-02-4	
o-Terphenyl (S) SG	95 %		50-150		1	05/31/12 09:50	05/31/12 20:37	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	1.3	ug/L	0.50	0.14	1	05/31/12 17:03	06/04/12 18:10	7440-38-2	
Barium	56.4	ug/L	0.30	0.15	1	05/31/12 17:03	06/04/12 18:10	7440-39-3	
Cadmium	0.67	ug/L	0.080	0.028	1	05/31/12 17:03	06/04/12 18:10	7440-43-9	
Chromium	2.3	ug/L	0.50	0.094	1	05/31/12 17:03	06/04/12 18:10	7440-47-3	
Lead	43.6	ug/L	0.10	0.018	1	05/31/12 17:03	06/04/12 18:10	7439-92-1	B
Selenium	1.7	ug/L	0.50	0.22	1	05/31/12 17:03	06/04/12 18:10	7782-49-2	
Silver	0.36J	ug/L	0.50	0.25	1	05/31/12 17:03	06/05/12 14:54	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	0.037J	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:36	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 04:00		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/26/12 04:00	460-00-4	

Sample: DP13-051712      Lab ID: 2512229002      Collected: 05/17/12 13:00      Received: 05/19/12 09:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.53	ug/L	0.53	0.53	1	05/22/12 09:50	05/22/12 23:49	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	89 %		32-117		1	05/22/12 09:50	05/22/12 23:49	877-09-8	
Decachlorobiphenyl (S)	80 %		17-122		1	05/22/12 09:50	05/22/12 23:49	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.045	mg/L	0.090	0.045	1	05/31/12 09:50	05/31/12 21:12		
Motor Oil Range SG	<0.22	mg/L	0.45	0.22	1	05/31/12 09:50	05/31/12 21:12	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	110 %		50-150		1	05/31/12 09:50	05/31/12 21:12	630-02-4	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP13-051712**      **Lab ID: 2512229002**      Collected: 05/17/12 13:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
<b>Surrogates</b>									
o-Terphenyl (S) SG	99 %		50-150		1	05/31/12 09:50	05/31/12 21:12	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	3.2 ug/L		0.50	0.14	1	05/30/12 13:50	05/31/12 20:53	7440-38-2	B
Barium	38.5 ug/L		0.30	0.15	1	05/30/12 13:50	05/31/12 20:53	7440-39-3	
Cadmium	0.10 ug/L		0.080	0.028	1	05/30/12 13:50	05/31/12 20:53	7440-43-9	
Chromium	4.6 ug/L		0.50	0.094	1	05/30/12 13:50	05/31/12 20:53	7440-47-3	
Lead	20.1 ug/L		0.10	0.018	1	05/30/12 13:50	05/31/12 20:53	7439-92-1	
Selenium	<0.22 ug/L		0.50	0.22	1	05/30/12 13:50	05/31/12 20:53	7782-49-2	
Silver	<0.25 ug/L		0.50	0.25	1	05/30/12 13:50	05/31/12 20:53	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010 ug/L		0.20	0.010	1	05/23/12 11:10	05/24/12 09:47	7439-97-6	
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0 ug/L		5.0	1.0	1		05/26/12 04:17	67-64-1	
Benzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	71-43-2	
Bromobenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	108-86-1	
Bromochloromethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	74-97-5	
Bromodichloromethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-27-4	
Bromoform	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-25-2	
Bromomethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	74-83-9	
2-Butanone (MEK)	<1.0 ug/L		5.0	1.0	1		05/26/12 04:17	78-93-3	
n-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	104-51-8	
sec-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	135-98-8	
tert-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	98-06-6	
Carbon disulfide	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-15-0	
Carbon tetrachloride	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	56-23-5	
Chlorobenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	108-90-7	
Chloroethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-00-3	
Chloroform	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	67-66-3	
Chloromethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	74-87-3	
2-Chlorotoluene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	95-49-8	
4-Chlorotoluene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50 ug/L		5.0	0.50	1		05/26/12 04:17	96-12-8	
Dibromochloromethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	124-48-1	
1,2-Dibromoethane (EDB)	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	106-93-4	
Dibromomethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	74-95-3	
1,2-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	95-50-1	
1,3-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	541-73-1	
1,4-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	106-46-7	
Dichlorodifluoromethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-71-8	
1,1-Dichloroethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	75-34-3	
1,2-Dichloroethane	<0.10 ug/L		1.0	0.10	1		05/26/12 04:17	107-06-2	
1,2-Dichloroethene (Total)	<0.20 ug/L		2.0	0.20	1		05/26/12 04:17	540-59-0	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample:** DP13-051712      **Lab ID:** 2512229002      Collected: 05/17/12 13:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	75-35-4	
cis-1,2-Dichloroethene	0.10J	ug/L	1.0	0.10	1		05/26/12 04:17	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 04:17	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 04:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 04:17	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 04:17	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 04:17	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 04:17	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 04:17	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106	%	79-121		1		05/26/12 04:17	460-00-4	
Dibromofluoromethane (S)	100	%	81-119		1		05/26/12 04:17	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	72-127		1		05/26/12 04:17	17060-07-0	
Toluene-d8 (S)	101	%	77-120		1		05/26/12 04:17	2037-26-5	

**NWTPH-Gx MSV**

Analytical Method: NWTPH-Gx

Gasoline Range Organics      <25.0 ug/L      50.0      25.0      1      05/26/12 04:17

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP13-051712**      **Lab ID: 2512229002**      Collected: 05/17/12 13:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**NWTPH-Gx MSV**      Analytical Method: NWTPH-Gx

**Surrogates**

4-Bromofluorobenzene (S)	106 %		50-150		1		05/26/12 04:17	460-00-4	
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**Sample: DP14-051712**      **Lab ID: 2512229003**      Collected: 05/17/12 18:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**NWTPH-Dx GCS Silica Gel**      Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510

Diesel Range SG	<0.040	mg/L	0.079	0.040	1	05/31/12 09:50	05/31/12 21:30		
Motor Oil Range SG	<0.20	mg/L	0.40	0.20	1	05/31/12 09:50	05/31/12 21:30	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	109 %		50-150		1	05/31/12 09:50	05/31/12 21:30	630-02-4	
o-Terphenyl (S) SG	97 %		50-150		1	05/31/12 09:50	05/31/12 21:30	84-15-1	

**6020 MET ICPMS**      Analytical Method: EPA 6020

Arsenic	1.5	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:57	7440-38-2	B
Barium	34.3	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:57	7440-39-3	
Cadmium	0.051J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:57	7440-43-9	
Chromium	1.8	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:57	7440-47-3	
Lead	3.5	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:57	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:57	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:57	7440-22-4	

**7470 Mercury**      Analytical Method: EPA 7470      Preparation Method: EPA 7470

Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:49	7439-97-6	
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**NWTPH-Gx MSV**      Analytical Method: NWTPH-Gx

Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 04:33		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		50-150		1		05/26/12 04:33	460-00-4	

**Sample: DP15-051712**      **Lab ID: 2512229004**      Collected: 05/17/12 18:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**NWTPH-Dx GCS Silica Gel**      Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510

Diesel Range SG	<0.040	mg/L	0.080	0.040	1	05/31/12 09:50	05/31/12 22:23		
Motor Oil Range SG	<0.20	mg/L	0.40	0.20	1	05/31/12 09:50	05/31/12 22:23	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	106 %		50-150		1	05/31/12 09:50	05/31/12 22:23	630-02-4	
o-Terphenyl (S) SG	96 %		50-150		1	05/31/12 09:50	05/31/12 22:23	84-15-1	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP15-051712      Lab ID: 2512229004      Collected: 05/17/12 18:30      Received: 05/19/12 09:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.93	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 21:13	7440-38-2	B
Barium	28.6	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 21:13	7440-39-3	
Cadmium	0.12	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 21:13	7440-43-9	
Chromium	1.1	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 21:13	7440-47-3	
Lead	8.4	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 21:13	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 21:13	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 21:13	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:51	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 04:50		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/26/12 04:50	460-00-4	

Sample: DP16-051712      Lab ID: 2512229005      Collected: 05/17/12 15:30      Received: 05/19/12 09:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.040	mg/L	0.080	0.040	1	05/31/12 09:50	05/31/12 22:40		
Motor Oil Range SG	<0.20	mg/L	0.40	0.20	1	05/31/12 09:50	05/31/12 22:40	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	109 %		50-150		1	05/31/12 09:50	05/31/12 22:40	630-02-4	
o-Terphenyl (S) SG	99 %		50-150		1	05/31/12 09:50	05/31/12 22:40	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.55	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 21:17	7440-38-2	B
Barium	34.8	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 21:17	7440-39-3	
Cadmium	0.030J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 21:17	7440-43-9	
Chromium	0.65	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 21:17	7440-47-3	
Lead	6.1	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 21:17	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 21:17	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 21:17	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:53	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 05:07		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		50-150		1		05/26/12 05:07	460-00-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP17-051712**      **Lab ID: 2512229006**      Collected: 05/17/12 16:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3510									
Diesel Range SG	<0.039	mg/L	0.078	0.039	1	05/31/12 09:50	05/31/12 22:58		
Motor Oil Range SG	<0.19	mg/L	0.39	0.19	1	05/31/12 09:50	05/31/12 22:58	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	109 %		50-150		1	05/31/12 09:50	05/31/12 22:58	630-02-4	
o-Terphenyl (S) SG	98 %		50-150		1	05/31/12 09:50	05/31/12 22:58	84-15-1	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	0.72	ug/L	0.50	0.14	1	05/30/12 19:33	06/04/12 00:10	7440-38-2	B
Barium	23.5	ug/L	0.30	0.15	1	05/30/12 19:33	06/04/12 00:10	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 19:33	06/04/12 00:10	7440-43-9	
Chromium	0.28J	ug/L	0.50	0.094	1	05/30/12 19:33	06/04/12 00:10	7440-47-3	
Lead	0.66	ug/L	0.10	0.018	1	05/30/12 19:33	06/04/12 00:10	7439-92-1	B
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 19:33	06/04/12 00:10	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 19:33	06/04/12 00:10	7440-22-4	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020									
Arsenic, Dissolved	0.62	ug/L	0.50	0.14	1	05/30/12 13:27	05/31/12 13:43	7440-38-2	B
Barium, Dissolved	21.6	ug/L	0.30	0.15	1	05/30/12 13:27	05/31/12 13:43	7440-39-3	
Cadmium, Dissolved	<0.028	ug/L	0.080	0.028	1	05/30/12 13:27	05/31/12 13:43	7440-43-9	
Chromium, Dissolved	0.17J	ug/L	0.50	0.094	1	05/30/12 13:27	05/31/12 13:43	7440-47-3	
Lead, Dissolved	0.17	ug/L	0.10	0.018	1	05/30/12 13:27	05/31/12 13:43	7439-92-1	B
Selenium, Dissolved	<0.22	ug/L	0.50	0.22	1	05/30/12 13:27	05/31/12 13:43	7782-49-2	
Silver, Dissolved	0.30J	ug/L	0.50	0.25	1	05/30/12 13:27	05/31/12 13:43	7440-22-4	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:55	7439-97-6	
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470    Preparation Method: EPA 7470									
Mercury, Dissolved	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:26	7439-97-6	
<b>NWTPH-Gx MSV</b>									
Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 05:24		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/26/12 05:24	460-00-4	

**Sample: DP18-051712**      **Lab ID: 2512229007**      Collected: 05/17/12 16:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3510									
Diesel Range SG	<0.042	mg/L	0.083	0.042	1	05/31/12 09:50	05/31/12 23:15		
Motor Oil Range SG	<0.21	mg/L	0.42	0.21	1	05/31/12 09:50	05/31/12 23:15	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	106 %		50-150		1	05/31/12 09:50	05/31/12 23:15	630-02-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP18-051712**      **Lab ID: 2512229007**      Collected: 05/17/12 16:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
<i><b>Surrogates</b></i>									
o-Terphenyl (S) SG	95 %		50-150		1	05/31/12 09:50	05/31/12 23:15	84-15-1	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0 ug/L		50.0	25.0	1		05/26/12 05:41		
<i><b>Surrogates</b></i>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/26/12 05:41	460-00-4	

**Sample: DP19-051712**      **Lab ID: 2512229008**      Collected: 05/17/12 17:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.48 ug/L		0.48	0.48	1	05/24/12 09:30	05/25/12 00:16	11096-82-5	
<i><b>Surrogates</b></i>									
Tetrachloro-m-xylene (S)	83 %		32-117		1	05/24/12 09:30	05/25/12 00:16	877-09-8	
Decachlorobiphenyl (S)	68 %		17-122		1	05/24/12 09:30	05/25/12 00:16	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.042 mg/L		0.083	0.042	1	05/31/12 09:50	05/31/12 23:33		
Motor Oil Range SG	<0.21 mg/L		0.42	0.21	1	05/31/12 09:50	05/31/12 23:33	64742-65-0	
<i><b>Surrogates</b></i>									
n-Octacosane (S) SG	110 %		50-150		1	05/31/12 09:50	05/31/12 23:33	630-02-4	
o-Terphenyl (S) SG	99 %		50-150		1	05/31/12 09:50	05/31/12 23:33	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	1.6 ug/L		0.50	0.14	1	05/30/12 13:50	05/31/12 21:20	7440-38-2	B
Barium	34.6 ug/L		0.30	0.15	1	05/30/12 13:50	05/31/12 21:20	7440-39-3	
Cadmium	0.13 ug/L		0.080	0.028	1	05/30/12 13:50	05/31/12 21:20	7440-43-9	
Chromium	2.3 ug/L		0.50	0.094	1	05/30/12 13:50	05/31/12 21:20	7440-47-3	
Lead	8.4 ug/L		0.10	0.018	1	05/30/12 13:50	05/31/12 21:20	7439-92-1	
Selenium	<0.22 ug/L		0.50	0.22	1	05/30/12 13:50	05/31/12 21:20	7782-49-2	
Silver	<0.25 ug/L		0.50	0.25	1	05/30/12 13:50	05/31/12 21:20	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	0.011J ug/L		0.20	0.010	1	05/23/12 11:10	05/24/12 09:57	7439-97-6	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP19-051712 Lab ID: 2512229008 Collected: 05/17/12 17:30 Received: 05/19/12 09:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 05:58	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 05:58	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 05:58	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	107-06-2	
1,2-Dichloroethene (Total)	48.8	ug/L	2.0	0.20	1		05/26/12 05:58	540-59-0	
1,1-Dichloroethene	0.23J	ug/L	1.0	0.10	1		05/26/12 05:58	75-35-4	
cis-1,2-Dichloroethene	48.7	ug/L	1.0	0.10	1		05/26/12 05:58	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 05:58	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 05:58	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 05:58	108-10-1	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP19-051712**      **Lab ID: 2512229008**      Collected: 05/17/12 17:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	79-34-5	
Tetrachloroethene	0.80J	ug/L	1.0	0.10	1		05/26/12 05:58	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	79-00-5	
Trichloroethene	11.6	ug/L	1.0	0.10	1		05/26/12 05:58	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 05:58	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	108-67-8	
Vinyl chloride	2.7	ug/L	1.0	0.10	1		05/26/12 05:58	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 05:58	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 05:58	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 05:58	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		79-121		1		05/26/12 05:58	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 05:58	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/26/12 05:58	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/26/12 05:58	2037-26-5	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 05:58		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		50-150		1		05/26/12 05:58	460-00-4	

**Sample: TB1-051812**      **Lab ID: 2512229009**      Collected: 05/18/12 09:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 03:55	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	74-83-9	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **TB1-051812** Lab ID: **2512229009** Collected: 05/18/12 09:00 Received: 05/19/12 09:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 03:55	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 03:55	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 03:55	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 03:55	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/27/12 03:55	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 03:55	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	1634-04-4	
Naphthalene	3.9	ug/L	1.0	0.10	1		05/27/12 03:55	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	127-18-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB1-051812**      **Lab ID: 2512229009**      Collected: 05/18/12 09:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 03:55	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 03:55	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 03:55	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 03:55	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/27/12 03:55	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/27/12 03:55	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/27/12 03:55	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/27/12 03:55	2037-26-5	

<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 03:55		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/27/12 03:55	460-00-4	

**Sample: TB2-051812**      **Lab ID: 2512229010**      Collected: 05/18/12 09:05      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 04:12	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 04:12	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	108-90-7	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB2-051812**      **Lab ID: 2512229010**      Collected: 05/18/12 09:05      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 04:12	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 04:12	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 04:12	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	99-87-6	
Methylene chloride	1.6J	ug/L	5.0	0.50	1		05/27/12 04:12	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 04:12	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-69-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB2-051812**      **Lab ID: 2512229010**      Collected: 05/18/12 09:05      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 04:12	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 04:12	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 04:12	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:12	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/27/12 04:12	460-00-4	
Dibromofluoromethane (S)	103 %		81-119		1		05/27/12 04:12	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/27/12 04:12	17060-07-0	
Toluene-d8 (S)	99 %		77-120		1		05/27/12 04:12	2037-26-5	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 04:12		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/27/12 04:12	460-00-4	

**Sample: TB3-051812**      **Lab ID: 2512229011**      Collected: 05/18/12 09:10      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 04:29	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 04:29	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 04:29	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	124-48-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **TB3-051812** Lab ID: **2512229011** Collected: 05/18/12 09:10 Received: 05/19/12 09:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 04:29	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 04:29	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/27/12 04:29	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 04:29	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 04:29	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 04:29	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 04:29	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:29	95-47-6	

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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB3-051812**      **Lab ID: 2512229011**      Collected: 05/18/12 09:10      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	108 %		79-121		1		05/27/12 04:29	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/27/12 04:29	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/27/12 04:29	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/27/12 04:29	2037-26-5	
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0 ug/L		50.0	25.0	1		05/27/12 04:29		
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	108 %		50-150		1		05/27/12 04:29	460-00-4	

**Sample: TB4-051812**      **Lab ID: 2512229012**      Collected: 05/18/12 09:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0 ug/L		5.0	1.0	1		05/27/12 04:46	67-64-1	
Benzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	71-43-2	
Bromobenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	108-86-1	
Bromochloromethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	74-97-5	
Bromodichloromethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-27-4	
Bromoform	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-25-2	
Bromomethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	74-83-9	
2-Butanone (MEK)	<1.0 ug/L		5.0	1.0	1		05/27/12 04:46	78-93-3	
n-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	104-51-8	
sec-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	135-98-8	
tert-Butylbenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	98-06-6	
Carbon disulfide	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-15-0	
Carbon tetrachloride	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	56-23-5	
Chlorobenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	108-90-7	
Chloroethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-00-3	
Chloroform	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	67-66-3	
Chloromethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	74-87-3	
2-Chlorotoluene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	95-49-8	
4-Chlorotoluene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50 ug/L		5.0	0.50	1		05/27/12 04:46	96-12-8	
Dibromochloromethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	124-48-1	
1,2-Dibromoethane (EDB)	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	106-93-4	
Dibromomethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	74-95-3	
1,2-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	95-50-1	
1,3-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	541-73-1	
1,4-Dichlorobenzene	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	106-46-7	
Dichlorodifluoromethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-71-8	
1,1-Dichloroethane	<0.10 ug/L		1.0	0.10	1		05/27/12 04:46	75-34-3	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB4-051812**      **Lab ID: 2512229012**      Collected: 05/18/12 09:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 04:46	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 04:46	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/27/12 04:46	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 04:46	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 04:46	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 04:46	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 04:46	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 04:46	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/27/12 04:46	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/27/12 04:46	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		72-127		1		05/27/12 04:46	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/27/12 04:46	2037-26-5	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB4-051812**      **Lab ID: 2512229012**      Collected: 05/18/12 09:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 04:46		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	50-150		1		05/27/12 04:46	460-00-4	

**Sample: TB5-051812**      **Lab ID: 2512229013**      Collected: 05/18/12 09:20      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:03	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:03	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 05:03	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 05:03	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	142-28-9	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB5-051812**      **Lab ID: 2512229013**      Collected: 05/18/12 09:20      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:03	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/27/12 05:03	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:03	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 05:03	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 05:03	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 05:03	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:03	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/27/12 05:03	460-00-4	
Dibromofluoromethane (S)	101 %		81-119		1		05/27/12 05:03	1868-53-7	
1,2-Dichloroethane-d4 (S)	101 %		72-127		1		05/27/12 05:03	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/27/12 05:03	2037-26-5	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 05:03		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/27/12 05:03	460-00-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **TB6-051812**      Lab ID: **2512229014**      Collected: 05/18/12 09:25      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:20	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	74-83-9	
2-Butanone (MEK)	2.0J	ug/L	5.0	1.0	1		05/27/12 05:20	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 05:20	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 05:20	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:20	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/27/12 05:20	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:20	108-10-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB6-051812**      **Lab ID: 2512229014**      Collected: 05/18/12 09:25      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	1634-04-4	
Naphthalene	3.9	ug/L	1.0	0.10	1		05/27/12 05:20	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 05:20	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 05:20	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 05:20	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:20	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/27/12 05:20	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/27/12 05:20	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		72-127		1		05/27/12 05:20	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/27/12 05:20	2037-26-5	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 05:20		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/27/12 05:20	460-00-4	

**Sample: TB7-051812**      **Lab ID: 2512229015**      Collected: 05/18/12 09:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:36	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	74-83-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **TB7-051812** Lab ID: **2512229015** Collected: 05/18/12 09:30 Received: 05/19/12 09:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
2-Butanone (MEK)	<b>2.0J</b>	ug/L	5.0	1.0	1		05/27/12 05:36	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 05:36	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 05:36	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:36	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/27/12 05:36	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:36	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	127-18-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB7-051812**      **Lab ID: 2512229015**      Collected: 05/18/12 09:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 05:36	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 05:36	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 05:36	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:36	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/27/12 05:36	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/27/12 05:36	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		72-127		1		05/27/12 05:36	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/27/12 05:36	2037-26-5	

**NWTPH-Gx MSV**      Analytical Method: NWTPH-Gx

Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 05:36		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/27/12 05:36	460-00-4	

**Sample: TB8-051812**      **Lab ID: 2512229016**      Collected: 05/18/12 09:35      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:53	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:53	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	108-90-7	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB8-051812**      **Lab ID: 2512229016**      Collected: 05/18/12 09:35      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 05:53	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 05:53	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 05:53	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/27/12 05:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 05:53	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-69-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB8-051812**      **Lab ID: 2512229016**      Collected: 05/18/12 09:35      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 05:53	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 05:53	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 05:53	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 05:53	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/27/12 05:53	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/27/12 05:53	1868-53-7	
1,2-Dichloroethane-d4 (S)	104 %		72-127		1		05/27/12 05:53	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/27/12 05:53	2037-26-5	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 05:53		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/27/12 05:53	460-00-4	

**Sample: TB9-051812**      **Lab ID: 2512229017**      Collected: 05/18/12 16:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 06:10	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 06:10	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 06:10	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	124-48-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **TB9-051812** Lab ID: **2512229017** Collected: 05/18/12 16:30 Received: 05/19/12 09:00 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 06:10	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 06:10	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/27/12 06:10	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 06:10	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 06:10	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 06:10	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 06:10	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:10	95-47-6	

Date: 06/18/2012 01:49 PM

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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB9-051812**      **Lab ID: 2512229017**      Collected: 05/18/12 16:30      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/27/12 06:10	460-00-4	
Dibromofluoromethane (S)	101 %		81-119		1		05/27/12 06:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/27/12 06:10	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/27/12 06:10	2037-26-5	
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 06:10		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		50-150		1		05/27/12 06:10	460-00-4	

**Sample: TB10-051812**      **Lab ID: 2512229018**      Collected: 05/18/12 16:35      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/27/12 06:27	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/27/12 06:27	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/27/12 06:27	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-34-3	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: TB10-051812**      **Lab ID: 2512229018**      Collected: 05/18/12 16:35      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/27/12 06:27	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/27/12 06:27	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/27/12 06:27	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/27/12 06:27	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/27/12 06:27	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/27/12 06:27	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/27/12 06:27	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/27/12 06:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/27/12 06:27	460-00-4	
Dibromofluoromethane (S)	103 %		81-119		1		05/27/12 06:27	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		72-127		1		05/27/12 06:27	17060-07-0	
Toluene-d8 (S)	100 %		77-120		1		05/27/12 06:27	2037-26-5	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: TB10-051812      Lab ID: 2512229018      Collected: 05/18/12 16:35      Received: 05/19/12 09:00      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/27/12 06:27		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	50-150		1		05/27/12 06:27	460-00-4	

**Sample: Rinsate Soil      Lab ID: 2512229019      Collected: 05/18/12 16:15      Received: 05/19/12 09:00      Matrix: Water**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.51	ug/L	0.51	0.51	1	05/24/12 09:30	05/25/12 00:35	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	95	%	32-117		1	05/24/12 09:30	05/25/12 00:35	877-09-8	
Decachlorobiphenyl (S)	56	%	17-122		1	05/24/12 09:30	05/25/12 00:35	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.038	mg/L	0.076	0.038	1	06/01/12 12:15	06/01/12 20:13		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	06/01/12 12:15	06/01/12 20:13	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	107	%	50-150		1	06/01/12 12:15	06/01/12 20:13	630-02-4	
o-Terphenyl (S) SG	96	%	50-150		1	06/01/12 12:15	06/01/12 20:13	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.15J	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 21:24	7440-38-2	B
Barium	<0.15	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 21:24	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 21:24	7440-43-9	
Chromium	<0.094	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 21:24	7440-47-3	
Lead	<0.018	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 21:24	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 21:24	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 21:24	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 09:59	7439-97-6	
<b>8270 MSSV PAH SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	83-32-9	
Acenaphthylene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	208-96-8	
Anthracene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	120-12-7	
Benzo(a)anthracene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	56-55-3	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Soil**      **Lab ID: 2512229019**      Collected: 05/18/12 16:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Benzo(a)pyrene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	50-32-8	
Benzo(b)fluoranthene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	205-99-2	
Benzo(g,h,i)perylene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	191-24-2	
Benzo(k)fluoranthene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	207-08-9	
Chrysene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	218-01-9	
Dibenz(a,h)anthracene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	53-70-3	
Fluoranthene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	206-44-0	
Fluorene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	193-39-5	
1-Methylnaphthalene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	90-12-0	
2-Methylnaphthalene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	91-57-6	
Naphthalene	0.075J	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	91-20-3	
Phenanthrene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	85-01-8	
Pyrene	<0.051	ug/L	0.10	0.051	1	05/23/12 09:35	05/26/12 20:17	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61 %		21-110		1	05/23/12 09:35	05/26/12 20:17	321-60-8	
Terphenyl-d14 (S)	78 %		32-123		1	05/23/12 09:35	05/26/12 20:17	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:15	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	74-83-9	
2-Butanone (MEK)	1.2J	ug/L	5.0	1.0	1		05/26/12 06:15	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-00-3	
Chloroform	1.9	ug/L	1.0	0.10	1		05/26/12 06:15	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 06:15	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-71-8	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Soil**      **Lab ID: 2512229019**      Collected: 05/18/12 16:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 06:15	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-35-4	
cis-1,2-Dichloroethene	0.10J	ug/L	1.0	0.10	1		05/26/12 06:15	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:15	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 06:15	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 06:15	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	1634-04-4	
Naphthalene	3.9	ug/L	1.0	0.10	1		05/26/12 06:15	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	127-18-4	
Toluene	0.11J	ug/L	1.0	0.10	1		05/26/12 06:15	108-88-3	B
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 06:15	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 06:15	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 06:15	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:15	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/26/12 06:15	460-00-4	
Dibromofluoromethane (S)	103 %		81-119		1		05/26/12 06:15	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/26/12 06:15	17060-07-0	
Toluene-d8 (S)	104 %		77-120		1		05/26/12 06:15	2037-26-5	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Soil**      **Lab ID: 2512229019**      Collected: 05/18/12 16:15      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 06:15		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	50-150		1		05/26/12 06:15	460-00-4	

**Sample: Rinsate Water**      **Lab ID: 2512229020**      Collected: 05/18/12 16:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.48	ug/L	0.48	0.48	1	05/24/12 09:30	05/25/12 00:54	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	94	%	32-117		1	05/24/12 09:30	05/25/12 00:54	877-09-8	
Decachlorobiphenyl (S)	45	%	17-122		1	05/24/12 09:30	05/25/12 00:54	2051-24-3	

<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.038	mg/L	0.077	0.038	1	06/01/12 12:15	06/01/12 20:48		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	06/01/12 12:15	06/01/12 20:48	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	107	%	50-150		1	06/01/12 12:15	06/01/12 20:48	630-02-4	
o-Terphenyl (S) SG	97	%	50-150		1	06/01/12 12:15	06/01/12 20:48	84-15-1	

<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.16J	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 21:27	7440-38-2	B
Barium	<0.15	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 21:27	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 21:27	7440-43-9	
Chromium	<0.094	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 21:27	7440-47-3	
Lead	0.035J	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 21:27	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 21:27	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 21:27	7440-22-4	

<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/23/12 11:10	05/24/12 10:02	7439-97-6	

<b>8270 MSSV PAH SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	83-32-9	
Acenaphthylene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	208-96-8	
Anthracene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	120-12-7	
Benzo(a)anthracene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	56-55-3	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Water**      **Lab ID: 2512229020**      Collected: 05/18/12 16:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Benzo(a)pyrene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	50-32-8	
Benzo(b)fluoranthene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	205-99-2	
Benzo(g,h,i)perylene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	191-24-2	
Benzo(k)fluoranthene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	207-08-9	
Chrysene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	218-01-9	
Dibenz(a,h)anthracene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	53-70-3	
Fluoranthene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	206-44-0	
Fluorene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	193-39-5	
1-Methylnaphthalene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	90-12-0	
2-Methylnaphthalene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	91-57-6	
Naphthalene	0.068J	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	91-20-3	
Phenanthrene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	85-01-8	
Pyrene	<0.048	ug/L	0.096	0.048	1	05/23/12 09:35	05/26/12 20:34	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	50 %		21-110		1	05/23/12 09:35	05/26/12 20:34	321-60-8	
Terphenyl-d14 (S)	72 %		32-123		1	05/23/12 09:35	05/26/12 20:34	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:32	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 06:32	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-00-3	
Chloroform	0.41J	ug/L	1.0	0.10	1		05/26/12 06:32	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 06:32	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-71-8	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Water**      **Lab ID: 2512229020**      Collected: 05/18/12 16:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 06:32	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:32	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 06:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 06:32	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	1634-04-4	
Naphthalene	3.9	ug/L	1.0	0.10	1		05/26/12 06:32	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	127-18-4	
Toluene	0.11J	ug/L	1.0	0.10	1		05/26/12 06:32	108-88-3	B
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 06:32	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 06:32	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 06:32	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/26/12 06:32	460-00-4	
Dibromofluoromethane (S)	98 %		81-119		1		05/26/12 06:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	101 %		72-127		1		05/26/12 06:32	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/26/12 06:32	2037-26-5	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: Rinsate Water**      **Lab ID: 2512229020**      Collected: 05/18/12 16:00      Received: 05/19/12 09:00      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 06:32		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107	%	50-150		1		05/26/12 06:32	460-00-4	

**Sample: DP05-2**      **Lab ID: 2512229021**      Collected: 05/17/12 07:55      Received: 05/19/12 09:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546							
Diesel Range SG	<10.9	mg/kg	21.8	10.9	1	05/25/12 12:25	05/26/12 05:26		
Motor Oil Range SG	<43.7	mg/kg	87.3	43.7	1	05/25/12 12:25	05/26/12 05:26	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	102	%	50-150		1	05/25/12 12:25	05/26/12 05:26	630-02-4	
o-Terphenyl (S) SG	92	%	50-150		1	05/25/12 12:25	05/26/12 05:26	84-15-1	
<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx							
Gasoline Range Organics	<5.3	mg/kg	10.7	5.3	1	05/25/12 07:58	05/30/12 14:30		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	94	%	50-150		1	05/25/12 07:58	05/30/12 14:30	98-08-8	
4-Bromofluorobenzene (S)	69	%	50-150		1	05/25/12 07:58	05/30/12 14:30	460-00-4	

<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020							
Arsenic	8480	ug/kg	604	227	20	05/31/12 11:04	06/07/12 17:26	7440-38-2	
Barium	108000	ug/kg	363	79.8	20	05/31/12 11:04	06/07/12 17:26	7440-39-3	M6
Cadmium	122	ug/kg	96.7	29.0	20	05/31/12 11:04	06/07/12 17:26	7440-43-9	
Chromium	32700	ug/kg	604	210	20	05/31/12 11:04	06/07/12 17:26	7440-47-3	M6
Lead	14900	ug/kg	121	36.3	20	05/31/12 11:04	06/07/12 17:26	7439-92-1	B
Selenium	1640	ug/kg	604	239	20	05/31/12 11:04	06/07/12 17:26	7782-49-2	
Silver	<225	ug/kg	604	225	20	05/31/12 11:04	06/07/12 17:26	7440-22-4	

<b>7471 Mercury</b>		Analytical Method: EPA 7471      Preparation Method: EPA 7471							
Mercury	0.080J	mg/kg	0.10	0.0022	1	05/23/12 14:15	05/24/12 11:50	7439-97-6	

<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	28.1	%	0.10	0.10	1		05/23/12 17:17		

### ANALYTICAL RESULTS

Project: Heritage Square  
Pace Project No.: 2512229

**Sample: DP05-15**      **Lab ID: 2512229023**      Collected: 05/17/12 08:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "wet-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>									
Analytical Method: EPA 8082    Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	12674-11-2	
PCB-1221 (Aroclor 1221)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	11104-28-2	
PCB-1232 (Aroclor 1232)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	11141-16-5	
PCB-1242 (Aroclor 1242)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	53469-21-9	
PCB-1248 (Aroclor 1248)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	12672-29-6	
PCB-1254 (Aroclor 1254)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	11097-69-1	
PCB-1260 (Aroclor 1260)	<16.9	ug/kg	16.9	16.9	1	05/30/12 11:10	06/01/12 16:46	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	107 %		30-134		1	05/30/12 11:10	06/01/12 16:46	877-09-8	
Decachlorobiphenyl (S)	106 %		20-139		1	05/30/12 11:10	06/01/12 16:46	2051-24-3	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Acenaphthene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	83-32-9	
Acenaphthylene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	208-96-8	
Anthracene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	120-12-7	
Benzo(a)anthracene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	56-55-3	
Benzo(a)pyrene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	50-32-8	
Benzo(b)fluoranthene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	205-99-2	
Benzo(g,h,i)perylene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	191-24-2	
Benzo(k)fluoranthene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	207-08-9	
Chrysene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	218-01-9	
Dibenz(a,h)anthracene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	53-70-3	
Fluoranthene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	206-44-0	
Fluorene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	193-39-5	
1-Methylnaphthalene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	90-12-0	
2-Methylnaphthalene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	91-57-6	
Naphthalene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	91-20-3	
Phenanthrene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	85-01-8	
Pyrene	<6.7	ug/kg	6.7	6.7	1	05/30/12 11:00	06/01/12 17:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61 %		27-118		1	05/30/12 11:00	06/01/12 17:57	321-60-8	
Terphenyl-d14 (S)	55 %		28-125		1	05/30/12 11:00	06/01/12 17:57	1718-51-0	

**Sample: DP12-1.5**      **Lab ID: 2512229024**      Collected: 05/17/12 13:45      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx    Preparation Method: EPA 3546									
Diesel Range SG	<8.2	mg/kg	16.4	8.2	1	05/25/12 12:25	05/26/12 06:34		
Motor Oil Range SG	<32.8	mg/kg	65.5	32.8	1	05/25/12 12:25	05/26/12 06:34	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	109 %		50-150		1	05/25/12 12:25	05/26/12 06:34	630-02-4	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP12-1.5**      **Lab ID: 2512229024**      Collected: 05/17/12 13:45      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
<i>Surrogates</i>									
o-Terphenyl (S) SG	98 %		50-150		1	05/25/12 12:25	05/26/12 06:34	84-15-1	
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<2.4 mg/kg		4.9	2.4	1	05/25/12 07:58	05/30/12 15:41		
<i>Surrogates</i>									
a,a,a-Trifluorotoluene (S)	94 %		50-150		1	05/25/12 07:58	05/30/12 15:41	98-08-8	
4-Bromofluorobenzene (S)	68 %		50-150		1	05/25/12 07:58	05/30/12 15:41	460-00-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	1310 ug/kg		439	165	20	05/31/12 11:04	06/07/12 17:13	7440-38-2	
Barium	112000 ug/kg		264	58.0	20	05/31/12 11:04	06/07/12 17:13	7440-39-3	
Cadmium	527 ug/kg		70.3	21.1	20	05/31/12 11:04	06/07/12 17:13	7440-43-9	
Chromium	8200 ug/kg		439	153	20	05/31/12 11:04	06/07/12 17:13	7440-47-3	
Lead	201000 ug/kg		87.8	26.4	20	05/31/12 11:04	06/07/12 17:13	7439-92-1	B
Selenium	396J ug/kg		439	174	20	05/31/12 11:04	06/07/12 17:13	7782-49-2	
Silver	191J ug/kg		439	163	20	05/31/12 11:04	06/07/12 17:13	7440-22-4	B
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	0.0060J mg/kg		0.089	0.0019	1	05/23/12 14:15	05/24/12 12:02	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	6.7 %		0.10	0.10	1		05/23/12 17:19		

**Sample: DP13-2**      **Lab ID: 2512229025**      Collected: 05/17/12 11:30      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	12674-11-2	
PCB-1221 (Aroclor 1221)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	11104-28-2	
PCB-1232 (Aroclor 1232)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	11141-16-5	
PCB-1242 (Aroclor 1242)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	53469-21-9	
PCB-1248 (Aroclor 1248)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	12672-29-6	
PCB-1254 (Aroclor 1254)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	11097-69-1	
PCB-1260 (Aroclor 1260)	<22.9 ug/kg		22.9	22.9	1	05/30/12 11:10	06/01/12 18:03	11096-82-5	
<i>Surrogates</i>									
Tetrachloro-m-xylene (S)	83 %		30-134		1	05/30/12 11:10	06/01/12 18:03	877-09-8	
Decachlorobiphenyl (S)	73 %		20-139		1	05/30/12 11:10	06/01/12 18:03	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	102 mg/kg		20.5	10.2	1	05/25/12 12:25	05/26/12 06:52		

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP13-2 Lab ID: 2512229025 Collected: 05/17/12 11:30 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Motor Oil Range SG	887	mg/kg	81.8	40.9	1	05/25/12 12:25	05/26/12 06:52	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	112	%	50-150		1	05/25/12 12:25	05/26/12 06:52	630-02-4	
o-Terphenyl (S) SG	101	%	50-150		1	05/25/12 12:25	05/26/12 06:52	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<5.0	mg/kg	9.9	5.0	1	05/25/12 07:58	05/30/12 16:04		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	93	%	50-150		1	05/25/12 07:58	05/30/12 16:04	98-08-8	
4-Bromofluorobenzene (S)	65	%	50-150		1	05/25/12 07:58	05/30/12 16:04	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	2790	ug/kg	511	192	20	05/31/12 11:04	06/07/12 17:17	7440-38-2	
Barium	299000	ug/kg	307	67.5	20	05/31/12 11:04	06/07/12 17:17	7440-39-3	
Cadmium	371	ug/kg	81.8	24.5	20	05/31/12 11:04	06/07/12 17:17	7440-43-9	
Chromium	12000	ug/kg	511	178	20	05/31/12 11:04	06/07/12 17:17	7440-47-3	
Lead	313000	ug/kg	1020	307	200	05/31/12 11:04	06/08/12 09:15	7439-92-1	B
Selenium	482J	ug/kg	511	202	20	05/31/12 11:04	06/07/12 17:17	7782-49-2	
Silver	<190	ug/kg	511	190	20	05/31/12 11:04	06/07/12 17:17	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.053J	mg/kg	0.099	0.0021	1	05/23/12 14:15	05/24/12 12:04	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<9.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	83-32-9	
Acenaphthylene	37.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	208-96-8	
Anthracene	40.8	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	120-12-7	
Benzo(a)anthracene	53.4	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	56-55-3	
Benzo(a)pyrene	71.3	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	50-32-8	
Benzo(b)fluoranthene	71.1	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	205-99-2	
Benzo(g,h,i)perylene	42.7	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	191-24-2	
Benzo(k)fluoranthene	45.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	207-08-9	
Chrysene	66.4	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	218-01-9	
Dibenz(a,h)anthracene	11.7	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	53-70-3	
Fluoranthene	94.7	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	206-44-0	
Fluorene	<9.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	86-73-7	
Indeno(1,2,3-cd)pyrene	44.9	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	193-39-5	
1-Methylnaphthalene	<9.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	90-12-0	
2-Methylnaphthalene	17.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	91-57-6	B
Naphthalene	44.0	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	91-20-3	B
Phenanthrene	103	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	85-01-8	
Pyrene	69.4	ug/kg	9.0	9.0	1	05/30/12 11:00	06/01/12 21:41	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	60	%	27-118		1	05/30/12 11:00	06/01/12 21:41	321-60-8	
Terphenyl-d14 (S)	60	%	28-125		1	05/30/12 11:00	06/01/12 21:41	1718-51-0	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample:** DP13-2      **Lab ID:** 2512229025      Collected: 05/17/12 11:30      Received: 05/19/12 09:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Acetone	23.9	ug/kg	17.2	8.6	1		05/30/12 16:25	67-64-1	
tert-Amylmethyl ether	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	994-05-8	CL,L2
Benzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	71-43-2	
Bromobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	108-86-1	
Bromochloromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	74-97-5	
Bromodichloromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-27-4	
Bromoform	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-25-2	
Bromomethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	74-83-9	
2-Butanone (MEK)	<8.6	ug/kg	17.2	8.6	1		05/30/12 16:25	78-93-3	
n-Butylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	104-51-8	
sec-Butylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	135-98-8	
tert-Butylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	98-06-6	
Carbon disulfide	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-15-0	
Carbon tetrachloride	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	56-23-5	
Chlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	108-90-7	
Chloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-00-3	
Chloroform	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	67-66-3	
Chloromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	74-87-3	
2-Chlorotoluene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	95-49-8	
4-Chlorotoluene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	106-43-4	
1,2-Dibromo-3-chloropropane	<4.3	ug/kg	8.6	4.3	1		05/30/12 16:25	96-12-8	
Dibromochloromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	124-48-1	
1,2-Dibromoethane (EDB)	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	106-93-4	
Dibromomethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	74-95-3	
1,2-Dichlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	95-50-1	
1,3-Dichlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	541-73-1	
1,4-Dichlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	106-46-7	
Dichlorodifluoromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-71-8	CL
1,1-Dichloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-34-3	
1,2-Dichloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	107-06-2	
1,2-Dichloroethene (Total)	<5.2	ug/kg	10.3	5.2	1		05/30/12 16:25	540-59-0	
1,1-Dichloroethene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-35-4	
cis-1,2-Dichloroethene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	156-59-2	
trans-1,2-Dichloroethene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	156-60-5	
1,2-Dichloropropane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	78-87-5	
1,3-Dichloropropane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	142-28-9	
2,2-Dichloropropane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	594-20-7	
1,1-Dichloropropene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	563-58-6	
cis-1,3-Dichloropropene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	10061-01-5	
trans-1,3-Dichloropropene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	10061-02-6	
Ethylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	100-41-4	
Hexachloro-1,3-butadiene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	87-68-3	
2-Hexanone	<8.6	ug/kg	17.2	8.6	1		05/30/12 16:25	591-78-6	
Isopropylbenzene (Cumene)	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	98-82-8	
p-Isopropyltoluene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	99-87-6	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample:** DP13-2      **Lab ID:** 2512229025      Collected: 05/17/12 11:30      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Methylene chloride	<8.6	ug/kg	17.2	8.6	1		05/30/12 16:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	<8.6	ug/kg	17.2	8.6	1		05/30/12 16:25	108-10-1	
Methyl-tert-butyl ether	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	1634-04-4	
Naphthalene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	91-20-3	
n-Propylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	103-65-1	
Styrene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	100-42-5	
1,1,1,2-Tetrachloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	630-20-6	
1,1,2,2-Tetrachloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	79-34-5	
Tetrachloroethene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	127-18-4	
Toluene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	108-88-3	
1,2,3-Trichlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	87-61-6	
1,2,4-Trichlorobenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	120-82-1	
1,1,1-Trichloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	71-55-6	
1,1,2-Trichloroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	79-00-5	
Trichloroethene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	79-01-6	
Trichlorofluoromethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-69-4	
1,2,3-Trichloropropane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	76-13-1	
1,2,4-Trimethylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	95-63-6	
1,3,5-Trimethylbenzene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	108-67-8	
Vinyl chloride	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	75-01-4	
Xylene (Total)	<7.7	ug/kg	15.5	7.7	1		05/30/12 16:25	1330-20-7	
m&p-Xylene	<5.2	ug/kg	10.3	5.2	1		05/30/12 16:25	179601-23-1	
o-Xylene	<2.6	ug/kg	5.2	2.6	1		05/30/12 16:25	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	102	%	74-126		1		05/30/12 16:25	1868-53-7	
Toluene-d8 (S)	100	%	71-130		1		05/30/12 16:25	2037-26-5	
4-Bromofluorobenzene (S)	113	%	68-141		1		05/30/12 16:25	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	68-141		1		05/30/12 16:25	17060-07-0	

**Percent Moisture**      Analytical Method: ASTM D2974-87

Percent Moisture      **25.9** %      0.10      0.10      1      05/23/12 17:20

**Sample:** DP14-2.5      **Lab ID:** 2512229026      Collected: 05/17/12 13:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>		Analytical Method: EPA 8082      Preparation Method: EPA 3546							
PCB-1016 (Aroclor 1016)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	11141-16-5	
PCB-1242 (Aroclor 1242)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	53469-21-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample:** DP14-2.5      **Lab ID:** 2512229026      Collected: 05/17/12 13:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1248 (Aroclor 1248)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	12672-29-6	
PCB-1254 (Aroclor 1254)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	11097-69-1	
PCB-1260 (Aroclor 1260)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:01	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	97 %		30-134		1	05/30/12 11:10	06/01/12 19:01	877-09-8	
Decachlorobiphenyl (S)	96 %		20-139		1	05/30/12 11:10	06/01/12 19:01	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	36.1	mg/kg	16.1	8.1	1	05/25/12 12:25	05/26/12 07:09		
Motor Oil Range SG	313	mg/kg	64.4	32.2	1	05/25/12 12:25	05/26/12 07:09	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	108 %		50-150		1	05/25/12 12:25	05/26/12 07:09	630-02-4	
o-Terphenyl (S) SG	97 %		50-150		1	05/25/12 12:25	05/26/12 07:09	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.5	mg/kg	7.1	3.5	1	05/25/12 07:58	05/30/12 16:51		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91 %		50-150		1	05/25/12 07:58	05/30/12 16:51	98-08-8	
4-Bromofluorobenzene (S)	71 %		50-150		1	05/25/12 07:58	05/30/12 16:51	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	1380	ug/kg	371	139	20	05/31/12 11:04	06/07/12 17:22	7440-38-2	
Barium	63600	ug/kg	223	49.0	20	05/31/12 11:04	06/07/12 17:22	7440-39-3	
Cadmium	242	ug/kg	59.4	17.8	20	05/31/12 11:04	06/07/12 17:22	7440-43-9	
Chromium	10100	ug/kg	371	129	20	05/31/12 11:04	06/07/12 17:22	7440-47-3	
Lead	57200	ug/kg	74.2	22.3	20	05/31/12 11:04	06/07/12 17:22	7439-92-1	B
Selenium	360J	ug/kg	371	147	20	05/31/12 11:04	06/07/12 17:22	7782-49-2	
Silver	<138	ug/kg	371	138	20	05/31/12 11:04	06/07/12 17:22	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.040J	mg/kg	0.073	0.0016	1	05/23/12 14:15	05/24/12 12:06	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	83-32-9	
Acenaphthylene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	208-96-8	
Anthracene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	120-12-7	
Benzo(a)anthracene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	56-55-3	
Benzo(a)pyrene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	50-32-8	
Benzo(b)fluoranthene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	205-99-2	
Benzo(g,h,i)perylene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	191-24-2	
Benzo(k)fluoranthene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	207-08-9	
Chrysene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	218-01-9	
Dibenz(a,h)anthracene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	53-70-3	
Fluoranthene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	206-44-0	
Fluorene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	86-73-7	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP14-2.5**      **Lab ID: 2512229026**      Collected: 05/17/12 13:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546							
Indeno(1,2,3-cd)pyrene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	193-39-5	
1-Methylnaphthalene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	90-12-0	
2-Methylnaphthalene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	91-57-6	
Naphthalene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	91-20-3	
Phenanthrene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	85-01-8	
Pyrene	<71.1	ug/kg	71.1	71.1	10	05/30/12 11:00	06/01/12 19:40	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	64	%	27-118		10	05/30/12 11:00	06/01/12 19:40	321-60-8	D3
Terphenyl-d14 (S)	60	%	28-125		10	05/30/12 11:00	06/01/12 19:40	1718-51-0	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Acetone	124	ug/kg	12.7	6.3	1		05/30/12 16:46	67-64-1	
tert-Amylmethyl ether	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	994-05-8	CL,L2
Benzene	2.0J	ug/kg	3.8	1.9	1		05/30/12 16:46	71-43-2	
Bromobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	108-86-1	
Bromochloromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	74-97-5	
Bromodichloromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-27-4	
Bromoform	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-25-2	
Bromomethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	74-83-9	
2-Butanone (MEK)	<6.3	ug/kg	12.7	6.3	1		05/30/12 16:46	78-93-3	
n-Butylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	104-51-8	
sec-Butylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	135-98-8	
tert-Butylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	98-06-6	
Carbon disulfide	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-15-0	
Carbon tetrachloride	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	56-23-5	
Chlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	108-90-7	
Chloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-00-3	
Chloroform	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	67-66-3	
Chloromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	74-87-3	
2-Chlorotoluene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	95-49-8	
4-Chlorotoluene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	106-43-4	
1,2-Dibromo-3-chloropropane	<3.2	ug/kg	6.3	3.2	1		05/30/12 16:46	96-12-8	
Dibromochloromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	124-48-1	
1,2-Dibromoethane (EDB)	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	106-93-4	
Dibromomethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	74-95-3	
1,2-Dichlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	95-50-1	
1,3-Dichlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	541-73-1	
1,4-Dichlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	106-46-7	
Dichlorodifluoromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-71-8	CL
1,1-Dichloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-34-3	
1,2-Dichloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	107-06-2	
1,2-Dichloroethene (Total)	<3.8	ug/kg	7.6	3.8	1		05/30/12 16:46	540-59-0	
1,1-Dichloroethene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-35-4	
cis-1,2-Dichloroethene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	156-59-2	
trans-1,2-Dichloroethene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	156-60-5	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP14-2.5 Lab ID: 2512229026 Collected: 05/17/12 13:15 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
1,2-Dichloropropane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	78-87-5	
1,3-Dichloropropane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	142-28-9	
2,2-Dichloropropane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	594-20-7	
1,1-Dichloropropene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	563-58-6	
cis-1,3-Dichloropropene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	10061-01-5	
trans-1,3-Dichloropropene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	10061-02-6	
Ethylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	100-41-4	
Hexachloro-1,3-butadiene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	87-68-3	
2-Hexanone	<6.3	ug/kg	12.7	6.3	1		05/30/12 16:46	591-78-6	
Isopropylbenzene (Cumene)	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	98-82-8	
p-Isopropyltoluene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	99-87-6	
Methylene chloride	<6.3	ug/kg	12.7	6.3	1		05/30/12 16:46	75-09-2	
4-Methyl-2-pentanone (MIBK)	<6.3	ug/kg	12.7	6.3	1		05/30/12 16:46	108-10-1	
Methyl-tert-butyl ether	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	1634-04-4	
Naphthalene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	91-20-3	
n-Propylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	103-65-1	
Styrene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	100-42-5	
1,1,1,2-Tetrachloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	630-20-6	
1,1,2,2-Tetrachloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	79-34-5	
Tetrachloroethene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	127-18-4	
Toluene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	108-88-3	
1,2,3-Trichlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	87-61-6	
1,2,4-Trichlorobenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	120-82-1	
1,1,1-Trichloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	71-55-6	
1,1,2-Trichloroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	79-00-5	
Trichloroethene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	79-01-6	
Trichlorofluoromethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-69-4	
1,2,3-Trichloropropane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	76-13-1	
1,2,4-Trimethylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	95-63-6	
1,3,5-Trimethylbenzene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	108-67-8	
Vinyl chloride	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	75-01-4	
Xylene (Total)	<5.7	ug/kg	11.4	5.7	1		05/30/12 16:46	1330-20-7	
m&p-Xylene	<3.8	ug/kg	7.6	3.8	1		05/30/12 16:46	179601-23-1	
o-Xylene	<1.9	ug/kg	3.8	1.9	1		05/30/12 16:46	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	104	%	74-126		1		05/30/12 16:46	1868-53-7	
Toluene-d8 (S)	100	%	71-130		1		05/30/12 16:46	2037-26-5	
4-Bromofluorobenzene (S)	113	%	68-141		1		05/30/12 16:46	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	68-141		1		05/30/12 16:46	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	6.4	%	0.10	0.10	1		05/23/12 17:21		

## ANALYTICAL RESULTS

Project: Heritage Square  
Pace Project No.: 2512229

Sample: DP15-1.5 Lab ID: 2512229027 Collected: 05/17/12 13:11 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	12674-11-2	
PCB-1221 (Aroclor 1221)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	11104-28-2	
PCB-1232 (Aroclor 1232)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	11141-16-5	
PCB-1242 (Aroclor 1242)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	53469-21-9	
PCB-1248 (Aroclor 1248)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	12672-29-6	
PCB-1254 (Aroclor 1254)	47.8	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	11097-69-1	
PCB-1260 (Aroclor 1260)	<18.0	ug/kg	18.0	18.0	1	05/30/12 11:10	06/01/12 19:20	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	94 %		30-134		1	05/30/12 11:10	06/01/12 19:20	877-09-8	
Decachlorobiphenyl (S)	103 %		20-139		1	05/30/12 11:10	06/01/12 19:20	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	<8.0	mg/kg	16.1	8.0	1	05/25/12 12:25	05/26/12 07:26		
Motor Oil Range SG	71.8	mg/kg	64.3	32.1	1	05/25/12 12:25	05/26/12 07:26	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	107 %		50-150		1	05/25/12 12:25	05/26/12 07:26	630-02-4	
o-Terphenyl (S) SG	96 %		50-150		1	05/25/12 12:25	05/26/12 07:26	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.9	mg/kg	7.8	3.9	1	05/25/12 07:58	05/30/12 17:15		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	90 %		50-150		1	05/25/12 07:58	05/30/12 17:15	98-08-8	
4-Bromofluorobenzene (S)	68 %		50-150		1	05/25/12 07:58	05/30/12 17:15	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	1500	ug/kg	479	180	20	05/31/12 11:04	06/07/12 17:54	7440-38-2	
Barium	59800	ug/kg	287	63.2	20	05/31/12 11:04	06/07/12 17:54	7440-39-3	
Cadmium	276	ug/kg	76.6	23.0	20	05/31/12 11:04	06/07/12 17:54	7440-43-9	
Chromium	8870	ug/kg	479	167	20	05/31/12 11:04	06/07/12 17:54	7440-47-3	
Lead	33300	ug/kg	95.7	28.7	20	05/31/12 11:04	06/07/12 17:54	7439-92-1	B
Selenium	442J	ug/kg	479	190	20	05/31/12 11:04	06/07/12 17:54	7782-49-2	
Silver	205J	ug/kg	479	178	20	05/31/12 11:04	06/07/12 17:54	7440-22-4	B
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.019J	mg/kg	0.074	0.0016	1	05/23/12 14:15	05/24/12 12:08	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	83-32-9	
Acenaphthylene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	208-96-8	
Anthracene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	120-12-7	
Benzo(a)anthracene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	56-55-3	
Benzo(a)pyrene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	50-32-8	
Benzo(b)fluoranthene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	205-99-2	
Benzo(g,h,i)perylene	8.7	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	191-24-2	
Benzo(k)fluoranthene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	207-08-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP15-1.5**      **Lab ID: 2512229027**      Collected: 05/17/12 13:11      Received: 05/19/12 09:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM    Preparation Method: EPA 3546									
Chrysene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	218-01-9	
Dibenz(a,h)anthracene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	53-70-3	
Fluoranthene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	206-44-0	
Fluorene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	86-73-7	
Indeno(1,2,3-cd)pyrene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	193-39-5	
1-Methylnaphthalene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	90-12-0	
2-Methylnaphthalene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	91-57-6	
Naphthalene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	91-20-3	
Phenanthrene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	85-01-8	
Pyrene	<7.1	ug/kg	7.1	7.1	1	05/30/12 11:00	06/01/12 18:14	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	71	%	27-118		1	05/30/12 11:00	06/01/12 18:14	321-60-8	
Terphenyl-d14 (S)	73	%	28-125		1	05/30/12 11:00	06/01/12 18:14	1718-51-0	
<b>8260/5035A Volatile Organics</b>									
Analytical Method: EPA 8260									
Acetone	174	ug/kg	50.6	25.3	1		05/30/12 17:06	67-64-1	
tert-Amylmethyl ether	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	994-05-8	CL,L2
Benzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	71-43-2	
Bromobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	108-86-1	
Bromochloromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	74-97-5	
Bromodichloromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-27-4	
Bromoform	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-25-2	
Bromomethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	74-83-9	
2-Butanone (MEK)	<25.3	ug/kg	50.6	25.3	1		05/30/12 17:06	78-93-3	
n-Butylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	104-51-8	
sec-Butylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	135-98-8	
tert-Butylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	98-06-6	
Carbon disulfide	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-15-0	
Carbon tetrachloride	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	56-23-5	
Chlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	108-90-7	
Chloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-00-3	
Chloroform	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	67-66-3	
Chloromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	74-87-3	
2-Chlorotoluene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	95-49-8	
4-Chlorotoluene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	106-43-4	
1,2-Dibromo-3-chloropropane	<12.6	ug/kg	25.3	12.6	1		05/30/12 17:06	96-12-8	
Dibromochloromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	124-48-1	
1,2-Dibromoethane (EDB)	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	106-93-4	
Dibromomethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	74-95-3	
1,2-Dichlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	95-50-1	
1,3-Dichlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	541-73-1	
1,4-Dichlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	106-46-7	
Dichlorodifluoromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-71-8	CL
1,1-Dichloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-34-3	
1,2-Dichloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	107-06-2	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP15-1.5 Lab ID: 2512229027 Collected: 05/17/12 13:11 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
1,2-Dichloroethene (Total)	<15.2	ug/kg	30.3	15.2	1		05/30/12 17:06	540-59-0	
1,1-Dichloroethene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-35-4	
cis-1,2-Dichloroethene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	156-59-2	
trans-1,2-Dichloroethene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	156-60-5	
1,2-Dichloropropane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	78-87-5	
1,3-Dichloropropane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	142-28-9	
2,2-Dichloropropane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	594-20-7	
1,1-Dichloropropene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	563-58-6	
cis-1,3-Dichloropropene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	10061-01-5	
trans-1,3-Dichloropropene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	10061-02-6	
Ethylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	100-41-4	
Hexachloro-1,3-butadiene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	87-68-3	
2-Hexanone	<25.3	ug/kg	50.6	25.3	1		05/30/12 17:06	591-78-6	
Isopropylbenzene (Cumene)	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	98-82-8	
p-Isopropyltoluene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	99-87-6	
Methylene chloride	<25.3	ug/kg	50.6	25.3	1		05/30/12 17:06	75-09-2	
4-Methyl-2-pentanone (MIBK)	<25.3	ug/kg	50.6	25.3	1		05/30/12 17:06	108-10-1	
Methyl-tert-butyl ether	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	1634-04-4	
Naphthalene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	91-20-3	
n-Propylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	103-65-1	
Styrene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	100-42-5	
1,1,1,2-Tetrachloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	630-20-6	
1,1,2,2-Tetrachloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	79-34-5	
Tetrachloroethene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	127-18-4	
Toluene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	108-88-3	
1,2,3-Trichlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	87-61-6	
1,2,4-Trichlorobenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	120-82-1	
1,1,1-Trichloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	71-55-6	
1,1,2-Trichloroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	79-00-5	
Trichloroethene	13.7J	ug/kg	15.2	7.6	1		05/30/12 17:06	79-01-6	
Trichlorofluoromethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-69-4	
1,2,3-Trichloropropane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	96-18-4	
1,1,2-Trichlorotrifluoroethane	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	76-13-1	
1,2,4-Trimethylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	95-63-6	
1,3,5-Trimethylbenzene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	108-67-8	
Vinyl chloride	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	75-01-4	
Xylene (Total)	<22.7	ug/kg	45.5	22.7	1		05/30/12 17:06	1330-20-7	
m&p-Xylene	<15.2	ug/kg	30.3	15.2	1		05/30/12 17:06	179601-23-1	
o-Xylene	<7.6	ug/kg	15.2	7.6	1		05/30/12 17:06	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	74-126		1		05/30/12 17:06	1868-53-7	
Toluene-d8 (S)	101	%	71-130		1		05/30/12 17:06	2037-26-5	
4-Bromofluorobenzene (S)	109	%	68-141		1		05/30/12 17:06	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	68-141		1		05/30/12 17:06	17060-07-0	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP15-1.5**      **Lab ID: 2512229027**      Collected: 05/17/12 13:11      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	5.9 %		0.10	0.10	1		05/23/12 17:21		

**Sample: DP16-3**      **Lab ID: 2512229028**      Collected: 05/17/12 11:50      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<8.5 mg/kg		16.9	8.5	1	05/25/12 12:25	05/26/12 07:43		
Motor Oil Range SG	38.4J mg/kg		67.7	33.9	1	05/25/12 12:25	05/26/12 07:43	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	109 %		50-150		1	05/25/12 12:25	05/26/12 07:43	630-02-4	
o-Terphenyl (S) SG	98 %		50-150		1	05/25/12 12:25	05/26/12 07:43	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx

Gasoline Range Organics	<4.5 mg/kg		9.0	4.5	1	05/25/12 07:58	05/30/12 17:38		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	94 %		50-150		1	05/25/12 07:58	05/30/12 17:38	98-08-8	
4-Bromofluorobenzene (S)	71 %		50-150		1	05/25/12 07:58	05/30/12 17:38	460-00-4	

**6020 MET ICPMS**      Analytical Method: EPA 6020

Arsenic	3800 ug/kg		431	162	20	05/31/12 11:04	06/07/12 17:59	7440-38-2	
Barium	116000 ug/kg		259	57.0	20	05/31/12 11:04	06/07/12 17:59	7440-39-3	
Cadmium	318 ug/kg		69.0	20.7	20	05/31/12 11:04	06/07/12 17:59	7440-43-9	
Chromium	17200 ug/kg		431	150	20	05/31/12 11:04	06/07/12 17:59	7440-47-3	
Lead	1930000 ug/kg		863	259	200	05/31/12 11:04	06/08/12 09:28	7439-92-1	B
Selenium	448 ug/kg		431	171	20	05/31/12 11:04	06/07/12 17:59	7782-49-2	
Silver	<161 ug/kg		431	161	20	05/31/12 11:04	06/07/12 17:59	7440-22-4	

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Mercury	0.042J mg/kg		0.074	0.0016	1	05/23/12 14:15	05/24/12 12:11	7439-97-6	
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**Percent Moisture**      Analytical Method: ASTM D2974-87

Percent Moisture	10.2 %		0.10	0.10	1		05/23/12 17:22		
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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample:** DP17-1.5      **Lab ID:** 2512229029      Collected: 05/17/12 14:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	12674-11-2	
PCB-1221 (Aroclor 1221)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	11104-28-2	
PCB-1232 (Aroclor 1232)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	11141-16-5	
PCB-1242 (Aroclor 1242)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	53469-21-9	
PCB-1248 (Aroclor 1248)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	12672-29-6	
PCB-1254 (Aroclor 1254)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	11097-69-1	
PCB-1260 (Aroclor 1260)	<17.8	ug/kg	17.8	17.8	1	05/30/12 11:10	06/01/12 19:59	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	89 %		30-134		1	05/30/12 11:10	06/01/12 19:59	877-09-8	
Decachlorobiphenyl (S)	86 %		20-139		1	05/30/12 11:10	06/01/12 19:59	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	26.2	mg/kg	16.2	8.1	1	05/25/12 12:25	05/26/12 08:35		
Motor Oil Range SG	199	mg/kg	64.8	32.4	1	05/25/12 12:25	05/26/12 08:35	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	106 %		50-150		1	05/25/12 12:25	05/26/12 08:35	630-02-4	
o-Terphenyl (S) SG	95 %		50-150		1	05/25/12 12:25	05/26/12 08:35	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.4	mg/kg	6.7	3.4	1	05/25/12 07:58	05/30/12 18:25		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	95 %		50-150		1	05/25/12 07:58	05/30/12 18:25	98-08-8	
4-Bromofluorobenzene (S)	72 %		50-150		1	05/25/12 07:58	05/30/12 18:25	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	2860	ug/kg	449	169	20	05/31/12 11:04	06/07/12 18:03	7440-38-2	
Barium	159000	ug/kg	269	59.2	20	05/31/12 11:04	06/07/12 18:03	7440-39-3	
Cadmium	361	ug/kg	71.8	21.5	20	05/31/12 11:04	06/07/12 18:03	7440-43-9	
Chromium	15100	ug/kg	449	156	20	05/31/12 11:04	06/07/12 18:03	7440-47-3	
Lead	183000	ug/kg	89.7	26.9	20	05/31/12 11:04	06/07/12 18:03	7439-92-1	B
Selenium	678	ug/kg	449	178	20	05/31/12 11:04	06/07/12 18:03	7782-49-2	
Silver	<167	ug/kg	449	167	20	05/31/12 11:04	06/07/12 18:03	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.093	mg/kg	0.070	0.0015	1	05/23/12 14:15	05/24/12 12:13	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	83-32-9	
Acenaphthylene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	208-96-8	
Anthracene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	120-12-7	
Benzo(a)anthracene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	56-55-3	
Benzo(a)pyrene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	50-32-8	
Benzo(b)fluoranthene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	205-99-2	
Benzo(g,h,i)perylene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	191-24-2	
Benzo(k)fluoranthene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	207-08-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP17-1.5 Lab ID: 2512229029 Collected: 05/17/12 14:15 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Chrysene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	218-01-9	
Dibenz(a,h)anthracene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	53-70-3	
Fluoranthene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	206-44-0	
Fluorene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	193-39-5	
1-Methylnaphthalene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	90-12-0	
2-Methylnaphthalene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	91-57-6	
Naphthalene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	91-20-3	
Phenanthrene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	85-01-8	
Pyrene	<69.5	ug/kg	69.5	69.5	10	05/30/12 11:00	06/01/12 19:57	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	61 %		27-118		10	05/30/12 11:00	06/01/12 19:57	321-60-8	D3
Terphenyl-d14 (S)	59 %		28-125		10	05/30/12 11:00	06/01/12 19:57	1718-51-0	
<b>8260/5035A Volatile Organics</b>									
Analytical Method: EPA 8260									
Acetone	11.7J	ug/kg	13.9	7.0	1		05/30/12 17:48	67-64-1	
tert-Amylmethyl ether	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	994-05-8	CL,L2
Benzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	71-43-2	
Bromobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	108-86-1	
Bromochloromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	74-97-5	
Bromodichloromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-27-4	
Bromoform	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-25-2	
Bromomethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	74-83-9	
2-Butanone (MEK)	<7.0	ug/kg	13.9	7.0	1		05/30/12 17:48	78-93-3	
n-Butylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	104-51-8	
sec-Butylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	135-98-8	
tert-Butylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	98-06-6	
Carbon disulfide	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-15-0	
Carbon tetrachloride	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	56-23-5	
Chlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	108-90-7	
Chloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-00-3	
Chloroform	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	67-66-3	
Chloromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	74-87-3	
2-Chlorotoluene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	95-49-8	
4-Chlorotoluene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	106-43-4	
1,2-Dibromo-3-chloropropane	<3.5	ug/kg	7.0	3.5	1		05/30/12 17:48	96-12-8	
Dibromochloromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	124-48-1	
1,2-Dibromoethane (EDB)	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	106-93-4	
Dibromomethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	74-95-3	
1,2-Dichlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	95-50-1	
1,3-Dichlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	541-73-1	
1,4-Dichlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	106-46-7	
Dichlorodifluoromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-71-8	CL
1,1-Dichloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-34-3	
1,2-Dichloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	107-06-2	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP17-1.5**      **Lab ID: 2512229029**      Collected: 05/17/12 14:15      Received: 05/19/12 09:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
1,2-Dichloroethene (Total)	<4.2	ug/kg	8.4	4.2	1		05/30/12 17:48	540-59-0	
1,1-Dichloroethene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-35-4	
cis-1,2-Dichloroethene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	156-59-2	
trans-1,2-Dichloroethene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	156-60-5	
1,2-Dichloropropane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	78-87-5	
1,3-Dichloropropane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	142-28-9	
2,2-Dichloropropane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	594-20-7	
1,1-Dichloropropene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	563-58-6	
cis-1,3-Dichloropropene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	10061-01-5	
trans-1,3-Dichloropropene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	10061-02-6	
Ethylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	100-41-4	
Hexachloro-1,3-butadiene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	87-68-3	
2-Hexanone	<7.0	ug/kg	13.9	7.0	1		05/30/12 17:48	591-78-6	
Isopropylbenzene (Cumene)	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	98-82-8	
p-Isopropyltoluene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	99-87-6	
Methylene chloride	<7.0	ug/kg	13.9	7.0	1		05/30/12 17:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<7.0	ug/kg	13.9	7.0	1		05/30/12 17:48	108-10-1	
Methyl-tert-butyl ether	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	1634-04-4	
Naphthalene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	91-20-3	
n-Propylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	103-65-1	
Styrene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	100-42-5	
1,1,1,2-Tetrachloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	630-20-6	
1,1,2,2-Tetrachloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	79-34-5	
Tetrachloroethene	6.8	ug/kg	4.2	2.1	1		05/30/12 17:48	127-18-4	
Toluene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	108-88-3	
1,2,3-Trichlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	87-61-6	
1,2,4-Trichlorobenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	120-82-1	
1,1,1-Trichloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	71-55-6	
1,1,2-Trichloroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	79-00-5	
Trichloroethene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	79-01-6	
Trichlorofluoromethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-69-4	
1,2,3-Trichloropropane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	76-13-1	
1,2,4-Trimethylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	95-63-6	
1,3,5-Trimethylbenzene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	108-67-8	
Vinyl chloride	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	75-01-4	
Xylene (Total)	<6.3	ug/kg	12.5	6.3	1		05/30/12 17:48	1330-20-7	
m&p-Xylene	<4.2	ug/kg	8.4	4.2	1		05/30/12 17:48	179601-23-1	
o-Xylene	<2.1	ug/kg	4.2	2.1	1		05/30/12 17:48	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	101	%	74-126		1		05/30/12 17:48	1868-53-7	
Toluene-d8 (S)	102	%	71-130		1		05/30/12 17:48	2037-26-5	
4-Bromofluorobenzene (S)	109	%	68-141		1		05/30/12 17:48	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	68-141		1		05/30/12 17:48	17060-07-0	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP17-1.5**      **Lab ID: 2512229029**      Collected: 05/17/12 14:15      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>4.8</b>	%	0.10	0.10	1		05/23/12 17:22		

**Sample: DP18-1.5**      **Lab ID: 2512229030**      Collected: 05/17/12 12:32      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<b>&lt;10.6</b>	mg/kg	21.1	10.6	1	05/25/12 12:25	05/26/12 08:52		
Motor Oil Range SG	<b>&lt;42.3</b>	mg/kg	84.5	42.3	1	05/25/12 12:25	05/26/12 08:52	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	110	%	50-150		1	05/25/12 12:25	05/26/12 08:52	630-02-4	
o-Terphenyl (S) SG	99	%	50-150		1	05/25/12 12:25	05/26/12 08:52	84-15-1	
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<b>&lt;5.8</b>	mg/kg	11.6	5.8	1	05/25/12 07:58	05/30/12 18:49		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	91	%	50-150		1	05/25/12 07:58	05/30/12 18:49	98-08-8	
4-Bromofluorobenzene (S)	71	%	50-150		1	05/25/12 07:58	05/30/12 18:49	460-00-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	<b>1470</b>	ug/kg	490	184	20	05/31/12 11:04	06/07/12 18:08	7440-38-2	
Barium	<b>42500</b>	ug/kg	294	64.7	20	05/31/12 11:04	06/07/12 18:08	7440-39-3	
Cadmium	<b>34.3J</b>	ug/kg	78.4	23.5	20	05/31/12 11:04	06/07/12 18:08	7440-43-9	
Chromium	<b>10900</b>	ug/kg	490	170	20	05/31/12 11:04	06/07/12 18:08	7440-47-3	
Lead	<b>7000</b>	ug/kg	98.0	29.4	20	05/31/12 11:04	06/07/12 18:08	7439-92-1	B
Selenium	<b>448J</b>	ug/kg	490	194	20	05/31/12 11:04	06/07/12 18:08	7782-49-2	
Silver	<b>&lt;182</b>	ug/kg	490	182	20	05/31/12 11:04	06/07/12 18:08	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	<b>0.0099J</b>	mg/kg	0.090	0.0019	1	05/23/12 14:15	05/24/12 12:15	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>27.6</b>	%	0.10	0.10	1		05/23/12 17:24		

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP19-2.5**      **Lab ID: 2512229031**      Collected: 05/17/12 13:40      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b>									
Analytical Method: EPA 8082 Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	12674-11-2	
PCB-1221 (Aroclor 1221)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	11104-28-2	
PCB-1232 (Aroclor 1232)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	11141-16-5	
PCB-1242 (Aroclor 1242)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	53469-21-9	
PCB-1248 (Aroclor 1248)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	12672-29-6	
PCB-1254 (Aroclor 1254)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	11097-69-1	
PCB-1260 (Aroclor 1260)	<30.0	ug/kg	30.0	30.0	1	05/30/12 11:10	06/01/12 20:37	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	81 %		30-134		1	05/30/12 11:10	06/01/12 20:37	877-09-8	
Decachlorobiphenyl (S)	78 %		20-139		1	05/30/12 11:10	06/01/12 20:37	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	216	mg/kg	26.7	13.4	1	05/25/12 12:25	05/26/12 09:09		
Motor Oil Range SG	1450	mg/kg	107	53.4	1	05/25/12 12:25	05/26/12 09:09	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	104 %		50-150		1	05/25/12 12:25	05/26/12 09:09	630-02-4	
o-Terphenyl (S) SG	92 %		50-150		1	05/25/12 12:25	05/26/12 09:09	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	13.5J	mg/kg	17.3	8.7	1	05/25/12 07:58	05/30/12 19:13		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	92 %		50-150		1	05/25/12 07:58	05/30/12 19:13	98-08-8	
4-Bromofluorobenzene (S)	76 %		50-150		1	05/25/12 07:58	05/30/12 19:13	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	116000	ug/kg	663	249	20	05/31/12 11:04	06/07/12 18:12	7440-38-2	
Barium	539000	ug/kg	398	87.5	20	05/31/12 11:04	06/07/12 18:12	7440-39-3	
Cadmium	24200	ug/kg	106	31.8	20	05/31/12 11:04	06/07/12 18:12	7440-43-9	
Chromium	50700	ug/kg	663	231	20	05/31/12 11:04	06/07/12 18:12	7440-47-3	
Lead	2850000	ug/kg	1330	398	200	05/31/12 11:04	06/08/12 09:41	7439-92-1	B
Selenium	1310	ug/kg	663	262	20	05/31/12 11:04	06/07/12 18:12	7782-49-2	
Silver	512J	ug/kg	663	247	20	05/31/12 11:04	06/07/12 18:12	7440-22-4	B
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	5.3	mg/kg	1.4	0.030	10	05/23/12 14:15	05/24/12 14:37	7439-97-6	D4
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<117	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	83-32-9	
Acenaphthylene	169	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	208-96-8	
Anthracene	120	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	120-12-7	
Benzo(a)anthracene	125	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	56-55-3	
Benzo(a)pyrene	369	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	50-32-8	
Benzo(b)fluoranthene	295	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	205-99-2	
Benzo(g,h,i)perylene	688	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	191-24-2	
Benzo(k)fluoranthene	159	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	207-08-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP19-2.5 Lab ID: 2512229031 Collected: 05/17/12 13:40 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Chrysene	160	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	218-01-9	
Dibenz(a,h)anthracene	<117	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	53-70-3	
Fluoranthene	149	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	206-44-0	
Fluorene	<117	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	86-73-7	
Indeno(1,2,3-cd)pyrene	543	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	193-39-5	
1-Methylnaphthalene	<117	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	90-12-0	
2-Methylnaphthalene	126	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	91-57-6	1n
Naphthalene	268	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	91-20-3	1n
Phenanthrene	<117	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	85-01-8	
Pyrene	226	ug/kg	117	117	10	05/30/12 11:00	06/01/12 20:15	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	58 %		27-118		10	05/30/12 11:00	06/01/12 20:15	321-60-8	D3
Terphenyl-d14 (S)	44 %		28-125		10	05/30/12 11:00	06/01/12 20:15	1718-51-0	
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Acetone	253	ug/kg	16.4	8.2	1		05/30/12 19:32	67-64-1	
tert-Amylmethyl ether	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	994-05-8	CL,L2
Benzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	71-43-2	
Bromobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	108-86-1	
Bromochloromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	74-97-5	
Bromodichloromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-27-4	
Bromoform	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-25-2	
Bromomethane	3.1J	ug/kg	4.9	2.5	1		05/30/12 19:32	74-83-9	
2-Butanone (MEK)	35.8	ug/kg	16.4	8.2	1		05/30/12 19:32	78-93-3	
n-Butylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	104-51-8	
sec-Butylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	135-98-8	
tert-Butylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	98-06-6	
Carbon disulfide	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-15-0	
Carbon tetrachloride	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	56-23-5	
Chlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	108-90-7	
Chloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-00-3	
Chloroform	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	67-66-3	
Chloromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	74-87-3	
2-Chlorotoluene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	95-49-8	
4-Chlorotoluene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	106-43-4	
1,2-Dibromo-3-chloropropane	<4.1	ug/kg	8.2	4.1	1		05/30/12 19:32	96-12-8	
Dibromochloromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	124-48-1	
1,2-Dibromoethane (EDB)	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	106-93-4	
Dibromomethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	74-95-3	
1,2-Dichlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	95-50-1	
1,3-Dichlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	541-73-1	
1,4-Dichlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	106-46-7	
Dichlorodifluoromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-71-8	CL
1,1-Dichloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-34-3	
1,2-Dichloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	107-06-2	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: DP19-2.5 Lab ID: 2512229031 Collected: 05/17/12 13:40 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
1,2-Dichloroethene (Total)	<4.9	ug/kg	9.8	4.9	1		05/30/12 19:32	540-59-0	
1,1-Dichloroethene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-35-4	
cis-1,2-Dichloroethene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	156-59-2	
trans-1,2-Dichloroethene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	156-60-5	
1,2-Dichloropropane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	78-87-5	
1,3-Dichloropropane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	142-28-9	
2,2-Dichloropropane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	594-20-7	
1,1-Dichloropropene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	563-58-6	
cis-1,3-Dichloropropene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	10061-01-5	
trans-1,3-Dichloropropene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	10061-02-6	
Ethylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	100-41-4	
Hexachloro-1,3-butadiene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	87-68-3	
2-Hexanone	<8.2	ug/kg	16.4	8.2	1		05/30/12 19:32	591-78-6	
Isopropylbenzene (Cumene)	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	98-82-8	
p-Isopropyltoluene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	99-87-6	
Methylene chloride	<8.2	ug/kg	16.4	8.2	1		05/30/12 19:32	75-09-2	
4-Methyl-2-pentanone (MIBK)	<8.2	ug/kg	16.4	8.2	1		05/30/12 19:32	108-10-1	
Methyl-tert-butyl ether	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	1634-04-4	
Naphthalene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	91-20-3	
n-Propylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	103-65-1	
Styrene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	100-42-5	
1,1,1,2-Tetrachloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	630-20-6	
1,1,2,2-Tetrachloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	79-34-5	
Tetrachloroethene	2.5J	ug/kg	4.9	2.5	1		05/30/12 19:32	127-18-4	
Toluene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	108-88-3	
1,2,3-Trichlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	120-82-1	
1,1,1-Trichloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	71-55-6	
1,1,2-Trichloroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	79-00-5	
Trichloroethene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	79-01-6	
Trichlorofluoromethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-69-4	
1,2,3-Trichloropropane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	76-13-1	
1,2,4-Trimethylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	95-63-6	
1,3,5-Trimethylbenzene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	108-67-8	
Vinyl chloride	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	75-01-4	
Xylene (Total)	<7.4	ug/kg	14.8	7.4	1		05/30/12 19:32	1330-20-7	
m&p-Xylene	<4.9	ug/kg	9.8	4.9	1		05/30/12 19:32	179601-23-1	
o-Xylene	<2.5	ug/kg	4.9	2.5	1		05/30/12 19:32	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	100 %		74-126		1		05/30/12 19:32	1868-53-7	
Toluene-d8 (S)	104 %		71-130		1		05/30/12 19:32	2037-26-5	
4-Bromofluorobenzene (S)	118 %		68-141		1		05/30/12 19:32	460-00-4	
1,2-Dichloroethane-d4 (S)	110 %		68-141		1		05/30/12 19:32	17060-07-0	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

**Sample: DP19-2.5**      **Lab ID: 2512229031**      Collected: 05/17/12 13:40      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	43.7 %		0.10	0.10	1		05/23/12 17:25		

**Sample: SOILDUP3**      **Lab ID: 2512229032**      Collected: 05/17/12 16:00      Received: 05/19/12 09:00      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	12674-11-2	
PCB-1221 (Aroclor 1221)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	11104-28-2	
PCB-1232 (Aroclor 1232)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	11141-16-5	
PCB-1242 (Aroclor 1242)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	53469-21-9	
PCB-1248 (Aroclor 1248)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	12672-29-6	
PCB-1254 (Aroclor 1254)	26.7 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	11097-69-1	
PCB-1260 (Aroclor 1260)	<21.6 ug/kg		21.6	21.6	1	05/30/12 11:10	06/01/12 20:57	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	78 %		30-134		1	05/30/12 11:10	06/01/12 20:57	877-09-8	
Decachlorobiphenyl (S)	88 %		20-139		1	05/30/12 11:10	06/01/12 20:57	2051-24-3	

**NWTPH-Dx GCS Silica Gel**      Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546

Diesel Range SG	439 mg/kg		20.0	10.0	1	05/25/12 12:25	05/26/12 09:26		
Motor Oil Range SG	3400 mg/kg		400	200	5	05/25/12 12:25	05/29/12 23:51	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	116 %		50-150		5	05/25/12 12:25	05/29/12 23:51	630-02-4	
o-Terphenyl (S) SG	96 %		50-150		1	05/25/12 12:25	05/26/12 09:26	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx

Gasoline Range Organics	5.2J mg/kg		9.9	5.0	1	05/25/12 07:58	05/30/12 19:36		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	87 %		50-150		1	05/25/12 07:58	05/30/12 19:36	98-08-8	
4-Bromofluorobenzene (S)	70 %		50-150		1	05/25/12 07:58	05/30/12 19:36	460-00-4	

**6020 MET ICPMS**      Analytical Method: EPA 6020

Arsenic	4280 ug/kg		534	201	20	05/31/12 11:04	06/07/12 18:17	7440-38-2	
Barium	939000 ug/kg		3210	705	200	05/31/12 11:04	06/08/12 09:46	7440-39-3	
Cadmium	13700 ug/kg		85.5	25.7	20	05/31/12 11:04	06/07/12 18:17	7440-43-9	
Chromium	32200 ug/kg		534	186	20	05/31/12 11:04	06/07/12 18:17	7440-47-3	
Lead	2790000 ug/kg		1070	321	200	05/31/12 11:04	06/08/12 09:46	7439-92-1	B
Selenium	949 ug/kg		534	212	20	05/31/12 11:04	06/07/12 18:17	7782-49-2	
Silver	421J ug/kg		534	199	20	05/31/12 11:04	06/07/12 18:17	7440-22-4	B

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Mercury	3.3 mg/kg		1.1	0.023	10	05/23/12 14:15	05/24/12 14:39	7439-97-6	D4
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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: SOILDUP3 Lab ID: 2512229032 Collected: 05/17/12 16:00 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<83.7	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	83-32-9	
Acenaphthylene	860	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	208-96-8	
Anthracene	666	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	120-12-7	
Benzo(a)anthracene	720	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	56-55-3	
Benzo(a)pyrene	2400	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	50-32-8	
Benzo(b)fluoranthene	2100	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	205-99-2	
Benzo(g,h,i)perylene	2860	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	191-24-2	
Benzo(k)fluoranthene	608	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	207-08-9	
Chrysene	963	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	218-01-9	
Dibenz(a,h)anthracene	341	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	53-70-3	
Fluoranthene	848	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	206-44-0	
Fluorene	<83.7	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	86-73-7	
Indeno(1,2,3-cd)pyrene	2230	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	193-39-5	
1-Methylnaphthalene	93.2	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	90-12-0	
2-Methylnaphthalene	334	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	91-57-6	1n
Naphthalene	494	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	91-20-3	1n
Phenanthrene	624	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	85-01-8	
Pyrene	1040	ug/kg	83.7	83.7	10	05/30/12 11:00	06/01/12 20:49	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	65 %		27-118		10	05/30/12 11:00	06/01/12 20:49	321-60-8	D3
Terphenyl-d14 (S)	58 %		28-125		10	05/30/12 11:00	06/01/12 20:49	1718-51-0	
<b>8260/5035A Volatile Organics</b>									
Analytical Method: EPA 8260									
Acetone	321	ug/kg	30.4	15.2	1		05/30/12 19:53	67-64-1	
tert-Amylmethyl ether	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	994-05-8	CL,L2
Benzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	71-43-2	
Bromobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	108-86-1	
Bromochloromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	74-97-5	
Bromodichloromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-27-4	
Bromoform	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-25-2	
Bromomethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	74-83-9	
2-Butanone (MEK)	43.6	ug/kg	30.4	15.2	1		05/30/12 19:53	78-93-3	
n-Butylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	104-51-8	
sec-Butylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	135-98-8	
tert-Butylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	98-06-6	
Carbon disulfide	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-15-0	
Carbon tetrachloride	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	56-23-5	
Chlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	108-90-7	
Chloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-00-3	
Chloroform	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	67-66-3	
Chloromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	74-87-3	
2-Chlorotoluene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	95-49-8	
4-Chlorotoluene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	106-43-4	
1,2-Dibromo-3-chloropropane	<7.6	ug/kg	15.2	7.6	1		05/30/12 19:53	96-12-8	
Dibromochloromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	124-48-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

Sample: **SOILDUP3** Lab ID: **2512229032** Collected: 05/17/12 16:00 Received: 05/19/12 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	106-93-4	
Dibromomethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	74-95-3	
1,2-Dichlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	95-50-1	
1,3-Dichlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	541-73-1	
1,4-Dichlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	106-46-7	
Dichlorodifluoromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-71-8	CL
1,1-Dichloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-34-3	
1,2-Dichloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	107-06-2	
1,2-Dichloroethene (Total)	<9.1	ug/kg	18.2	9.1	1		05/30/12 19:53	540-59-0	
1,1-Dichloroethene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-35-4	
cis-1,2-Dichloroethene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	156-59-2	
trans-1,2-Dichloroethene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	156-60-5	
1,2-Dichloropropane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	78-87-5	
1,3-Dichloropropane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	142-28-9	
2,2-Dichloropropane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	594-20-7	
1,1-Dichloropropene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	563-58-6	
cis-1,3-Dichloropropene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	10061-01-5	
trans-1,3-Dichloropropene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	10061-02-6	
Ethylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	100-41-4	
Hexachloro-1,3-butadiene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	87-68-3	
2-Hexanone	<15.2	ug/kg	30.4	15.2	1		05/30/12 19:53	591-78-6	
Isopropylbenzene (Cumene)	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	98-82-8	
p-Isopropyltoluene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	99-87-6	
Methylene chloride	<15.2	ug/kg	30.4	15.2	1		05/30/12 19:53	75-09-2	
4-Methyl-2-pentanone (MIBK)	<15.2	ug/kg	30.4	15.2	1		05/30/12 19:53	108-10-1	
Methyl-tert-butyl ether	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	1634-04-4	
Naphthalene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	91-20-3	
n-Propylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	103-65-1	
Styrene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	100-42-5	
1,1,1,2-Tetrachloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	630-20-6	
1,1,2,2-Tetrachloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	79-34-5	
Tetrachloroethene	5.7J	ug/kg	9.1	4.6	1		05/30/12 19:53	127-18-4	
Toluene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	108-88-3	
1,2,3-Trichlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	87-61-6	
1,2,4-Trichlorobenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	120-82-1	
1,1,1-Trichloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	71-55-6	
1,1,2-Trichloroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	79-00-5	
Trichloroethene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	79-01-6	
Trichlorofluoromethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-69-4	
1,2,3-Trichloropropane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	96-18-4	
1,1,2-Trichlorotrifluoroethane	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	76-13-1	
1,2,4-Trimethylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	95-63-6	
1,3,5-Trimethylbenzene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	108-67-8	
Vinyl chloride	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	75-01-4	
Xylene (Total)	<13.7	ug/kg	27.4	13.7	1		05/30/12 19:53	1330-20-7	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512229

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**Sample: SOILDUP3**      **Lab ID: 2512229032**      Collected: 05/17/12 16:00      Received: 05/19/12 09:00      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
m&p-Xylene	<9.1	ug/kg	18.2	9.1	1		05/30/12 19:53	179601-23-1	
o-Xylene	<4.6	ug/kg	9.1	4.6	1		05/30/12 19:53	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	99	%	74-126		1		05/30/12 19:53	1868-53-7	
Toluene-d8 (S)	101	%	71-130		1		05/30/12 19:53	2037-26-5	
4-Bromofluorobenzene (S)	111	%	68-141		1		05/30/12 19:53	460-00-4	
1,2-Dichloroethane-d4 (S)	112	%	68-141		1		05/30/12 19:53	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	21.4	%	0.10	0.10	1		05/23/12 17:25		



**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: GCV/2803 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

METHOD BLANK: 116936 Matrix: Solid  
 Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	5.0	05/30/12 09:50	
4-Bromofluorobenzene (S)	%	78	50-150	05/30/12 09:50	
a,a,a-Trifluorotoluene (S)	%	93	50-150	05/30/12 09:50	

LABORATORY CONTROL SAMPLE: 116937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	12.5	9.8	79	63-140	
4-Bromofluorobenzene (S)	%			75	50-150	
a,a,a-Trifluorotoluene (S)	%			79	50-150	

SAMPLE DUPLICATE: 117243

Parameter	Units	2512270002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	12000	13000	8	30	
4-Bromofluorobenzene (S)	%	103	106	3		
a,a,a-Trifluorotoluene (S)	%	123	125	2		

SAMPLE DUPLICATE: 117244

Parameter	Units	2512229025 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	<5.0	<5.0		30	
4-Bromofluorobenzene (S)	%	65	66	1		
a,a,a-Trifluorotoluene (S)	%	93	95	3		

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: ICPM/32617 Analysis Method: EPA 6020  
QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

METHOD BLANK: 1203701 Matrix: Solid  
Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/kg	<149	397	06/07/12 17:03	
Barium	ug/kg	<52.4	238	06/07/12 17:03	
Cadmium	ug/kg	<19.0	63.5	06/07/12 17:03	
Chromium	ug/kg	<138	397	06/07/12 17:03	
Lead	ug/kg	26.2J	79.4	06/07/12 17:03	
Selenium	ug/kg	<157	397	06/07/12 17:03	
Silver	ug/kg	209J	397	06/07/12 17:03	

LABORATORY CONTROL SAMPLE: 1203702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/kg	15400	15100	98	80-120	
Barium	ug/kg	15400	15700	102	80-120	
Cadmium	ug/kg	15400	15400	100	80-120	
Chromium	ug/kg	15400	15700	102	80-120	
Lead	ug/kg	15400	15600	102	80-120	
Selenium	ug/kg	15400	14900	97	80-120	
Silver	ug/kg	15400	16100	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203703 1203704

Parameter	Units	2512229021		MSD		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec							
Arsenic	ug/kg	8480	25000	21700	36400	30300	112	101	75-125	18	30			
Barium	ug/kg	108000	25000	21700	147000	125000	156	80	75-125	16	30	M6		
Cadmium	ug/kg	122	25000	21700	25500	21000	101	96	75-125	20	30			
Chromium	ug/kg	32700	25000	21700	82500	74900	199	194	75-125	10	30	M6		
Lead	ug/kg	14900	25000	21700	41100	34300	105	89	75-125	18	30			
Selenium	ug/kg	1640	25000	21700	26300	21900	98	93	75-125	18	30			
Silver	ug/kg	<225	25000	21700	25300	21200	101	97	75-125	18	30			

MATRIX SPIKE SAMPLE: 1203705

Parameter	Units	2512215020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/kg	2.1	15100	21900	131	75-125	M6
Barium	ug/kg	19.7	15100	53200	221	75-125	M6
Cadmium	ug/kg	<0.023	15100	21200	140	75-125	M6

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

MATRIX SPIKE SAMPLE:		1203705					
Parameter	Units	2512215020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/kg	15.6	15100	43300	183	75-125	M6
Lead	ug/kg	2.5	15100	24000	142	75-125	M6
Selenium	ug/kg	0.43J	15100	19700	127	75-125	M6
Silver	ug/kg	<0.18	15100	20600	136	75-125	M6

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: ICPM/32621 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
 Associated Lab Samples: 2512229002, 2512229003, 2512229004, 2512229005, 2512229008, 2512229019, 2512229020

METHOD BLANK: 1203716 Matrix: Water  
 Associated Lab Samples: 2512229002, 2512229003, 2512229004, 2512229005, 2512229008, 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	0.16J	0.50	05/31/12 19:53	
Barium	ug/L	<0.15	0.30	05/31/12 19:53	
Cadmium	ug/L	<0.028	0.080	05/31/12 19:53	
Chromium	ug/L	<0.094	0.50	05/31/12 19:53	
Lead	ug/L	<0.018	0.10	05/31/12 19:53	
Selenium	ug/L	<0.22	0.50	05/31/12 19:53	
Silver	ug/L	<0.25	0.50	05/31/12 19:53	

LABORATORY CONTROL SAMPLE: 1203717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	82.5	103	80-120	
Barium	ug/L	80	80.9	101	80-120	
Cadmium	ug/L	80	79.6	100	80-120	
Chromium	ug/L	80	79.6	100	80-120	
Lead	ug/L	80	81.5	102	80-120	
Selenium	ug/L	80	79.0	99	80-120	
Silver	ug/L	80	80.3	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203718 1203719

Parameter	Units	2512215001		MS		MSD		MS		MSD		% Rec		Max	
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual		
Arsenic	ug/L	2.0	80	80	83.4	83.5	102	102	75-125	.1	20				
Barium	ug/L	35.8	80	80	116	116	100	101	75-125	.7	20				
Cadmium	ug/L	0.053J	80	80	79.1	78.8	99	98	75-125	.3	20				
Chromium	ug/L	3.3	80	80	83.2	81.6	100	98	75-125	2	20				
Lead	ug/L	1.7	80	80	79.6	79.3	97	97	75-125	.3	20				
Selenium	ug/L	0.30J	80	80	77.4	78.0	96	97	75-125	.9	20				
Silver	ug/L	0.45J	80	80	75.9	77.0	94	96	75-125	2	20				

MATRIX SPIKE SAMPLE: 1203720

Parameter	Units	2512229003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.5	80	84.6	104	75-125	
Barium	ug/L	34.3	80	117	103	75-125	
Cadmium	ug/L	0.051J	80	80.1	100	75-125	
Chromium	ug/L	1.8	80	82.8	101	75-125	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

MATRIX SPIKE SAMPLE:		1203720					
Parameter	Units	2512229003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	3.5	80	82.7	99	75-125	
Selenium	ug/L	<0.22	80	79.0	99	75-125	
Silver	ug/L	<0.25	80	76.2	95	75-125	

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: ICPM/32622      Analysis Method: EPA 6020  
QC Batch Method: EPA 6020      Analysis Description: 6020 MET  
Associated Lab Samples: 2512229006

METHOD BLANK: 1203727      Matrix: Water  
Associated Lab Samples: 2512229006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	0.14J	0.50	06/03/12 23:46	
Barium	ug/L	<0.15	0.30	06/03/12 23:46	
Cadmium	ug/L	<0.028	0.080	06/03/12 23:46	
Chromium	ug/L	<0.094	0.50	06/03/12 23:46	
Lead	ug/L	0.025J	0.10	06/03/12 23:46	
Selenium	ug/L	<0.22	0.50	06/03/12 23:46	
Silver	ug/L	<0.25	0.50	06/03/12 23:46	CH

LABORATORY CONTROL SAMPLE: 1203728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	79.6	100	80-120	
Barium	ug/L	80	79.0	99	80-120	
Cadmium	ug/L	80	79.5	99	80-120	
Chromium	ug/L	80	81.4	102	80-120	
Lead	ug/L	80	81.7	102	80-120	
Selenium	ug/L	80	77.0	96	80-120	
Silver	ug/L	80	83.9	105	80-120	CH

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203729      1203730

Parameter	Units	2512090045		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Arsenic	ug/L	3.4	80	80	83.5	83.0	100	99	75-125	.6	20		
Barium	ug/L	17.7	80	80	95.8	95.3	98	97	75-125	.5	20		
Cadmium	ug/L	ND	80	80	81.2	79.8	101	100	75-125	2	20		
Chromium	ug/L	ND	80	80	82.3	82.1	102	102	75-125	.2	20		
Lead	ug/L	1.5	80	80	80.5	79.8	99	98	75-125	.9	20		
Selenium	ug/L	ND	80	80	77.4	77.2	97	96	75-125	.3	20		
Silver	ug/L	ND	80	80	81.9	82.0	102	103	75-125	.2	20		

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: ICPM/32623 Analysis Method: EPA 6020  
QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
Associated Lab Samples: 2512229001

METHOD BLANK: 1203731 Matrix: Water  
Associated Lab Samples: 2512229001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.14	0.50	06/05/12 14:21	
Barium	ug/L	<0.15	0.30	06/05/12 14:21	
Cadmium	ug/L	<0.028	0.080	06/04/12 16:29	
Chromium	ug/L	<0.094	0.50	06/04/12 16:29	
Lead	ug/L	0.043J	0.10	06/04/12 16:29	
Selenium	ug/L	<0.22	0.50	06/04/12 16:29	
Silver	ug/L	<0.25	0.50	06/05/12 14:21	

LABORATORY CONTROL SAMPLE: 1203732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	83.2	104	80-120	
Barium	ug/L	80	84.0	105	80-120	
Cadmium	ug/L	80	68.6	86	80-120	
Chromium	ug/L	80	69.5	87	80-120	
Lead	ug/L	80	69.6	87	80-120	
Selenium	ug/L	80	69.8	87	80-120	
Silver	ug/L	80	84.8	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203733 1203734

Parameter	Units	10193047001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec							
Arsenic	ug/L	3.9	80	80	86.4	87.4	103	104	75-125	1	20			
Barium	ug/L	27.3	80	80	113	111	107	104	75-125	2	20			
Cadmium	ug/L	1.4	80	80	70.5	73.0	86	90	75-125	4	20			
Chromium	ug/L	0.014	80	80	93.9	97.2	100	104	75-125	4	20			
Lead	ug/L	0.94	80	80	69.4	72.6	86	90	75-125	5	20			
Selenium	ug/L	0.0032	80	80	68.6	78.9	82	95	75-125	14	20			
Silver	ug/L	0.43J	80	80	80.7	81.6	100	102	75-125	1	20			

MATRIX SPIKE SAMPLE: 1203735

Parameter	Units	10193047011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.2J	80	75.6	93	75-125	
Barium	ug/L	40.1	80	112	90	75-125	
Cadmium	ug/L	<0.10	80	76.4	95	75-125	
Chromium	ug/L	0.0010J	80	77.6	96	75-125	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

MATRIX SPIKE SAMPLE:		1203735					
Parameter	Units	10193047011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	<0.10	80	76.4	95	75-125	
Selenium	ug/L	0.0010	80	79.0	98	75-125	
Silver	ug/L	0.23J	80	74.8	93	75-125	



**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: ICPM/32664

Analysis Method: EPA 6020

QC Batch Method: EPA 6020

Analysis Description: 6020 MET Dissolved

Associated Lab Samples: 2512229006

METHOD BLANK: 1205435

Matrix: Water

Associated Lab Samples: 2512229006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	0.14J	0.50	05/31/12 13:36	
Barium, Dissolved	ug/L	<0.15	0.30	05/31/12 13:36	
Cadmium, Dissolved	ug/L	<0.028	0.080	05/31/12 13:36	
Chromium, Dissolved	ug/L	<0.094	0.50	06/01/12 14:29	
Lead, Dissolved	ug/L	0.045J	0.10	05/31/12 13:36	
Selenium, Dissolved	ug/L	<0.22	0.50	05/31/12 13:36	
Silver, Dissolved	ug/L	<0.25	0.50	05/31/12 13:36	

LABORATORY CONTROL SAMPLE: 1205436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	81.4	102	85-115	
Barium, Dissolved	ug/L	80	79.2	99	85-115	
Cadmium, Dissolved	ug/L	80	78.8	99	85-115	
Chromium, Dissolved	ug/L	80	77.7	97	85-115	
Lead, Dissolved	ug/L	80	78.3	98	85-115	
Selenium, Dissolved	ug/L	80	80.2	100	85-115	
Silver, Dissolved	ug/L	80	80.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1205437

1205438

Parameter	Units	2512229006		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Arsenic, Dissolved	ug/L	0.62	80	80	79.2	81.1	98	101	70-130	2	20			
Barium, Dissolved	ug/L	21.6	80	80	98.3	101	96	99	70-130	2	20			
Cadmium, Dissolved	ug/L	<0.028	80	80	78.0	78.8	97	98	70-130	1	20			
Chromium, Dissolved	ug/L	0.17J	80	80	76.1	78.2	95	98	70-130	3	20			
Lead, Dissolved	ug/L	0.17	80	80	76.0	77.5	95	97	70-130	2	20			
Selenium, Dissolved	ug/L	<0.22	80	80	78.1	77.4	98	97	70-130	1	20			
Silver, Dissolved	ug/L	0.30J	80	80	75.4	78.4	94	98	70-130	4	20			

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: MERP/1694      Analysis Method: EPA 7470  
QC Batch Method: EPA 7470      Analysis Description: 7470 Mercury  
Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229008, 2512229019, 2512229020

METHOD BLANK: 116250      Matrix: Water  
Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229008, 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.010	0.20	05/24/12 09:32	

LABORATORY CONTROL SAMPLE: 116251

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	4.9	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116252      116253

Parameter	Units	2512229001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	0.037J	5	5	5.0	5.0	99	100	75-125	1	20	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MERP/1693

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury ,Dissolved

Associated Lab Samples: 2512229006

METHOD BLANK: 116246

Matrix: Water

Associated Lab Samples: 2512229006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.010	0.20	05/24/12 09:22	

LABORATORY CONTROL SAMPLE: 116247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	4.9	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116248

116249

Parameter	Units	2512229006		116249		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
Mercury, Dissolved	ug/L	<0.010	5	5	5.0	5.0	99	99	75-125	.2 20

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MERP/1696

Analysis Method: EPA 7471

QC Batch Method: EPA 7471

Analysis Description: 7471 Mercury

Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

METHOD BLANK: 116276

Matrix: Solid

Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0022	0.10	05/24/12 11:46	

LABORATORY CONTROL SAMPLE: 116277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116278 116279

Parameter	Units	2512229021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Mercury	mg/kg	0.080J	.51	.51	0.58	0.60	99	101	80-120	2	20	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MSV/7075 Analysis Method: EPA 5030B/8260  
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
 Associated Lab Samples: 2512229002, 2512229008, 2512229019, 2512229020

METHOD BLANK: 116778 Matrix: Water  
 Associated Lab Samples: 2512229002, 2512229008, 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/26/12 03:43	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,4-Trimethylbenzene	ug/L	0.12J	1.0	05/26/12 03:43	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/26/12 03:43	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/26/12 03:43	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/26/12 03:43	
2-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 03:43	
2-Hexanone	ug/L	<1.0	5.0	05/26/12 03:43	
4-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 03:43	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/26/12 03:43	
Acetone	ug/L	<1.0	5.0	05/26/12 03:43	
Benzene	ug/L	<0.10	1.0	05/26/12 03:43	
Bromobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Bromochloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Bromodichloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Bromoform	ug/L	<0.10	1.0	05/26/12 03:43	
Bromomethane	ug/L	<0.10	1.0	05/26/12 03:43	
Carbon disulfide	ug/L	<0.10	1.0	05/26/12 03:43	
Carbon tetrachloride	ug/L	<0.10	1.0	05/26/12 03:43	
Chlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Chloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
Chloroform	ug/L	<0.10	1.0	05/26/12 03:43	
Chloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
Dibromochloromethane	ug/L	<0.10	1.0	05/26/12 03:43	

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### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

METHOD BLANK: 116778

Matrix: Water

Associated Lab Samples: 2512229002, 2512229008, 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.10	1.0	05/26/12 03:43	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Ethylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/26/12 03:43	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/26/12 03:43	
m&p-Xylene	ug/L	<0.20	2.0	05/26/12 03:43	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/26/12 03:43	
Methylene chloride	ug/L	2.0J	5.0	05/26/12 03:43	
n-Butylbenzene	ug/L	0.10J	1.0	05/26/12 03:43	
n-Propylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Naphthalene	ug/L	<0.10	1.0	05/26/12 03:43	
o-Xylene	ug/L	<0.10	1.0	05/26/12 03:43	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/26/12 03:43	
sec-Butylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Styrene	ug/L	<0.10	1.0	05/26/12 03:43	
tert-Butylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Tetrachloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
Toluene	ug/L	0.13J	1.0	05/26/12 03:43	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
Trichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Vinyl chloride	ug/L	<0.10	1.0	05/26/12 03:43	
Xylene (Total)	ug/L	<0.30	3.0	05/26/12 03:43	
1,2-Dichloroethane-d4 (S)	%	101	72-127	05/26/12 03:43	
4-Bromofluorobenzene (S)	%	107	79-121	05/26/12 03:43	
Dibromofluoromethane (S)	%	100	81-119	05/26/12 03:43	
Toluene-d8 (S)	%	102	77-120	05/26/12 03:43	

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.5	102	70-122	
1,1,1-Trichloroethane	ug/L	20	20.3	102	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	62-133	
1,1,2-Trichloroethane	ug/L	20	20.7	103	68-122	
1,1-Dichloroethane	ug/L	20	20.6	103	70-125	
1,1-Dichloroethene	ug/L	20	20.9	104	69-142	
1,1-Dichloropropene	ug/L	20	20.8	104	67-129	
1,2,3-Trichlorobenzene	ug/L	20	17.2	86	60-132	
1,2,3-Trichloropropane	ug/L	20	19.5	98	65-120	
1,2,4-Trichlorobenzene	ug/L	20	17.3	87	62-127	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	20.6	103	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	65-123	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.0	95	71-118	
1,2-Dichloroethane	ug/L	20	20.1	100	63-131	
1,2-Dichloroethene (Total)	ug/L	40	41.2	103	73-134	
1,2-Dichloropropane	ug/L	20	20.2	101	70-125	
1,3,5-Trimethylbenzene	ug/L	20	19.4	97	70-123	
1,3-Dichlorobenzene	ug/L	20	18.9	94	72-119	
1,3-Dichloropropane	ug/L	20	20.0	100	69-122	
1,4-Dichlorobenzene	ug/L	20	18.7	93	70-116	
2,2-Dichloropropane	ug/L	20	18.9	94	52-149	
2-Butanone (MEK)	ug/L	40	40.6	101	45-155	
2-Chlorotoluene	ug/L	20	18.4	92	69-119	
2-Hexanone	ug/L	40	41.0	102	50-151	
4-Chlorotoluene	ug/L	20	19.3	97	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.2	101	61-145	
Acetone	ug/L	40	42.9	107	40-160	
Benzene	ug/L	20	17.9	90	66-123	
Bromobenzene	ug/L	20	19.8	99	68-118	
Bromochloromethane	ug/L	20	20.6	103	72-128	
Bromodichloromethane	ug/L	20	20.2	101	68-129	
Bromoform	ug/L	20	19.1	95	54-118	
Bromomethane	ug/L	20	22.2	111	43-151	
Carbon disulfide	ug/L	20	21.3	106	52-142	
Carbon tetrachloride	ug/L	20	20.7	104	67-135	
Chlorobenzene	ug/L	20	18.9	95	72-116	
Chloroethane	ug/L	20	20.1	101	48-139	
Chloroform	ug/L	20	20.4	102	71-124	
Chloromethane	ug/L	20	22.1	111	40-152	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	74-133	
cis-1,3-Dichloropropene	ug/L	10	10.6	106	64-132	
Dibromochloromethane	ug/L	20	19.8	99	60-121	
Dibromomethane	ug/L	20	20.2	101	69-131	
Dichlorodifluoromethane	ug/L	20	22.7	113	40-160	
Ethylbenzene	ug/L	20	20.7	104	67-122	
Hexachloro-1,3-butadiene	ug/L	20	20.4	102	55-139	
Isopropylbenzene (Cumene)	ug/L	20	20.5	103	67-124	
m&p-Xylene	ug/L	40	41.9	105	66-122	
Methyl-tert-butyl ether	ug/L	20	20.1	100	65-138	
Methylene chloride	ug/L	20	22.2	111	58-137	
n-Butylbenzene	ug/L	20	20.5	103	68-129	
n-Propylbenzene	ug/L	20	19.7	98	66-126	
Naphthalene	ug/L	20	16.0	80	59-133	
o-Xylene	ug/L	20	20.6	103	69-123	
p-Isopropyltoluene	ug/L	20	18.8	94	69-127	
sec-Butylbenzene	ug/L	20	19.7	99	68-129	
Styrene	ug/L	20	20.3	102	72-125	
tert-Butylbenzene	ug/L	20	18.9	95	58-120	
Tetrachloroethene	ug/L	20	20.1	100	40-115	
Toluene	ug/L	20	20.1	101	64-118	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	20.0	100	70-134	
trans-1,3-Dichloropropene	ug/L	10	8.8	88	52-115	
Trichloroethene	ug/L	20	19.8	99	69-125	
Trichlorofluoromethane	ug/L	20	22.5	112	57-155	
Vinyl chloride	ug/L	20	22.9	115	53-132	
Xylene (Total)	ug/L	60	62.6	104	68-122	
1,2-Dichloroethane-d4 (S)	%			99	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117995 117996

Parameter	2512450001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.2	19.6	86	98	67-132	13	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.6	20.3	88	101	67-145	14	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.9	18.3	79	92	65-135	14	23	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	19.1	84	96	67-126	13	22	
1,1-Dichloroethane	ug/L	ND	20	20	17.5	20.0	88	100	69-138	13	21	
1,1-Dichloroethene	ug/L	ND	20	20	18.4	21.0	92	105	68-160	13	21	
1,1-Dichloropropene	ug/L	ND	20	20	18.0	20.7	90	104	68-145	14	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.7	18.9	78	94	57-131	18	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.9	18.8	80	94	61-123	17	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.5	18.5	77	93	58-130	18	24	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	16.2	18.9	76	90	60-136	15	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.1	20.4	90	102	48-127	12	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.3	19.5	86	98	61-127	12	25	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.7	18.5	79	92	67-126	16	21	
1,2-Dichloroethane	ug/L	ND	20	20	16.5	18.9	82	95	60-138	14	23	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	35.6	40.5	89	101	70-146	13	22	
1,2-Dichloropropane	ug/L	ND	20	20	17.1	19.6	86	98	67-138	14	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	16.2	19.0	79	93	64-135	16	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	18.3	77	91	69-128	17	21	
1,3-Dichloropropane	ug/L	ND	20	20	16.3	18.6	81	93	65-128	13	22	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.2	18.0	76	90	66-124	17	28	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	16.5	71	82	46-160	14	24	
2-Butanone (MEK)	ug/L	ND	40	40	37.2	41.0	93	102	40-140	10	25	
2-Chlorotoluene	ug/L	ND	20	20	15.2	17.9	76	90	67-129	17	20	
2-Hexanone	ug/L	ND	40	40	35.2	41.3	88	103	42-141	16	27	
4-Chlorotoluene	ug/L	ND	20	20	16.1	18.9	80	94	67-133	16	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	33.8	37.3	85	93	54-151	10	27	
Acetone	ug/L	ND	40	40	42.5	44.3	106	111	40-155	4	30	
Benzene	ug/L	ND	20	20	15.6	17.7	74	85	63-138	13	24	
Bromobenzene	ug/L	ND	20	20	16.5	19.4	83	97	64-127	16	21	
Bromochloromethane	ug/L	ND	20	20	17.8	19.8	89	99	66-136	10	22	
Bromodichloromethane	ug/L	ND	20	20	17.1	19.3	86	97	65-138	12	23	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

Parameter	2512450001		MS		MSD		MS		MSD		MS		MSD		% Rec		Max	
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	Limits	RPD	RPD	RPD	RPD	Qual
Bromoform	ug/L	ND	20	20	15.7	17.8	78	89	51-119	13	23							
Bromomethane	ug/L	ND	20	20	22.5	22.9	113	114	40-158	2	26							
Carbon disulfide	ug/L	ND	20	20	18.4	20.7	92	103	56-158	11	23							
Carbon tetrachloride	ug/L	ND	20	20	18.1	21.0	91	105	66-152	15	22							
Chlorobenzene	ug/L	ND	20	20	15.9	18.5	80	92	68-128	15	27							
Chloroethane	ug/L	ND	20	20	20.8	20.0	104	100	49-154	4	25							
Chloroform	ug/L	ND	20	20	17.4	20.1	87	101	69-137	15	21							
Chloromethane	ug/L	ND	20	20	21.5	20.5	107	103	40-160	4	25							
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.1	20.7	90	103	69-147	13	21							
cis-1,3-Dichloropropene	ug/L	ND	10	10	8.6	9.9	86	99	60-141	14	23							
Dibromochloromethane	ug/L	ND	20	20	16.5	18.7	82	94	56-125	13	23							
Dibromomethane	ug/L	ND	20	20	17.1	18.7	86	93	63-137	9	23							
Dichlorodifluoromethane	ug/L	ND	20	20	19.8	20.5	99	103	40-160	3	24							
Ethylbenzene	ug/L	ND	20	20	17.7	20.4	86	99	65-135	14	25							
Hexachloro-1,3-butadiene	ug/L	ND	20	20	15.5	19.6	78	98	50-149	23	19	D6						
Isopropylbenzene (Cumene)	ug/L	1.7	20	20	18.8	21.5	86	99	64-137	13	27							
m&p-Xylene	ug/L	2.5	40	40	36.1	41.4	84	97	63-134	14	25							
Methyl-tert-butyl ether	ug/L	ND	20	20	17.1	19.1	85	96	59-143	11	26							
Methylene chloride	ug/L	ND	20	20	17.3	19.5	87	97	52-133	12	23							
n-Butylbenzene	ug/L	ND	20	20	16.1	20.1	79	99	65-143	22	20	D6						
n-Propylbenzene	ug/L	1.5	20	20	17.4	20.2	79	94	64-141	15	25							
Naphthalene	ug/L	5.6	20	20	16.1	19.1	52	68	48-141	18	29							
o-Xylene	ug/L	ND	20	20	17.5	19.9	85	97	68-131	13	23							
p-Isopropyltoluene	ug/L	ND	20	20	15.3	18.2	76	91	69-137	18	21							
sec-Butylbenzene	ug/L	ND	20	20	16.4	19.5	81	97	69-139	18	20							
Styrene	ug/L	ND	20	20	16.5	19.0	83	95	67-135	14	23							
tert-Butylbenzene	ug/L	ND	20	20	16.0	18.9	80	95	61-129	17	21							
Tetrachloroethene	ug/L	ND	20	20	16.8	19.5	84	97	40-122	15	21							
Toluene	ug/L	ND	20	20	17.7	20.0	84	96	64-128	12	24							
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.5	19.9	87	99	66-150	13	21							
trans-1,3-Dichloropropene	ug/L	ND	10	10	7.2	8.1	72	81	51-116	12	23							
Trichloroethene	ug/L	ND	20	20	17.2	19.6	86	98	68-135	13	21							
Trichlorofluoromethane	ug/L	ND	20	20	22.6	22.4	113	112	54-160	.9	23							
Vinyl chloride	ug/L	ND	20	20	23.7	22.7	118	113	45-155	4	22							
Xylene (Total)	ug/L	3.1	60	60	53.6	61.3	84	97	65-133	13	25							
1,2-Dichloroethane-d4 (S)	%							97	96	72-127								
4-Bromofluorobenzene (S)	%							89	89	79-121								
Dibromofluoromethane (S)	%							101	100	81-119								
Toluene-d8 (S)	%							100	100	77-120								

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MSV/7079 Analysis Method: EPA 5030B/8260  
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
 Associated Lab Samples: 2512229009, 2512229010, 2512229011, 2512229012, 2512229013, 2512229014, 2512229015, 2512229016,  
 2512229017, 2512229018

METHOD BLANK: 116786 Matrix: Water

Associated Lab Samples: 2512229009, 2512229010, 2512229011, 2512229012, 2512229013, 2512229014, 2512229015, 2512229016,  
 2512229017, 2512229018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/27/12 03:38	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/27/12 03:38	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/27/12 03:38	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
1,2,4-Trimethylbenzene	ug/L	0.11J	1.0	05/27/12 03:38	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/27/12 03:38	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/27/12 03:38	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/27/12 03:38	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/27/12 03:38	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/27/12 03:38	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/27/12 03:38	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/27/12 03:38	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/27/12 03:38	
2-Chlorotoluene	ug/L	<0.10	1.0	05/27/12 03:38	
2-Hexanone	ug/L	<1.0	5.0	05/27/12 03:38	
4-Chlorotoluene	ug/L	<0.10	1.0	05/27/12 03:38	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/27/12 03:38	
Acetone	ug/L	5.9	5.0	05/27/12 03:38	
Benzene	ug/L	<0.10	1.0	05/27/12 03:38	
Bromobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Bromochloromethane	ug/L	<0.10	1.0	05/27/12 03:38	
Bromodichloromethane	ug/L	<0.10	1.0	05/27/12 03:38	
Bromoform	ug/L	<0.10	1.0	05/27/12 03:38	
Bromomethane	ug/L	<0.10	1.0	05/27/12 03:38	
Carbon disulfide	ug/L	<0.10	1.0	05/27/12 03:38	
Carbon tetrachloride	ug/L	<0.10	1.0	05/27/12 03:38	
Chlorobenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Chloroethane	ug/L	<0.10	1.0	05/27/12 03:38	
Chloroform	ug/L	<0.10	1.0	05/27/12 03:38	
Chloromethane	ug/L	<0.10	1.0	05/27/12 03:38	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/27/12 03:38	

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

METHOD BLANK: 116786

Matrix: Water

Associated Lab Samples: 2512229009, 2512229010, 2512229011, 2512229012, 2512229013, 2512229014, 2512229015, 2512229016, 2512229017, 2512229018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/27/12 03:38	
Dibromochloromethane	ug/L	<0.10	1.0	05/27/12 03:38	
Dibromomethane	ug/L	<0.10	1.0	05/27/12 03:38	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/27/12 03:38	
Ethylbenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/27/12 03:38	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/27/12 03:38	
m&p-Xylene	ug/L	<0.20	2.0	05/27/12 03:38	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/27/12 03:38	
Methylene chloride	ug/L	3.0J	5.0	05/27/12 03:38	
n-Butylbenzene	ug/L	0.10J	1.0	05/27/12 03:38	
n-Propylbenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Naphthalene	ug/L	<0.10	1.0	05/27/12 03:38	
o-Xylene	ug/L	<0.10	1.0	05/27/12 03:38	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/27/12 03:38	
sec-Butylbenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Styrene	ug/L	<0.10	1.0	05/27/12 03:38	
tert-Butylbenzene	ug/L	<0.10	1.0	05/27/12 03:38	
Tetrachloroethene	ug/L	<0.10	1.0	05/27/12 03:38	
Toluene	ug/L	<0.10	1.0	05/27/12 03:38	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/27/12 03:38	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/27/12 03:38	
Trichloroethene	ug/L	<0.10	1.0	05/27/12 03:38	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/27/12 03:38	
Vinyl chloride	ug/L	<0.10	1.0	05/27/12 03:38	
Xylene (Total)	ug/L	<0.30	3.0	05/27/12 03:38	
1,2-Dichloroethane-d4 (S)	%	105	72-127	05/27/12 03:38	
4-Bromofluorobenzene (S)	%	103	79-121	05/27/12 03:38	
Dibromofluoromethane (S)	%	104	81-119	05/27/12 03:38	
Toluene-d8 (S)	%	100	77-120	05/27/12 03:38	

LABORATORY CONTROL SAMPLE: 116787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.8	99	70-122	
1,1,1-Trichloroethane	ug/L	20	20.3	102	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	17.6	88	62-133	
1,1,2-Trichloroethane	ug/L	20	20.0	100	68-122	
1,1-Dichloroethane	ug/L	20	20.4	102	70-125	
1,1-Dichloroethene	ug/L	20	20.2	101	69-142	
1,1-Dichloropropene	ug/L	20	20.9	104	67-129	
1,2,3-Trichlorobenzene	ug/L	20	16.5	83	60-132	
1,2,3-Trichloropropane	ug/L	20	19.3	96	65-120	
1,2,4-Trichlorobenzene	ug/L	20	16.8	84	62-127	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 116787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	97	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	20.4	102	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	19.5	98	65-123	
1,2-Dichlorobenzene	ug/L	20	18.7	94	71-118	
1,2-Dichloroethane	ug/L	20	19.5	98	63-131	
1,2-Dichloroethene (Total)	ug/L	40	39.7	99	73-134	
1,2-Dichloropropane	ug/L	20	19.8	99	70-125	
1,3,5-Trimethylbenzene	ug/L	20	19.0	95	70-123	
1,3-Dichlorobenzene	ug/L	20	18.6	93	72-119	
1,3-Dichloropropane	ug/L	20	19.2	96	69-122	
1,4-Dichlorobenzene	ug/L	20	18.1	90	70-116	
2,2-Dichloropropane	ug/L	20	16.9	85	52-149	
2-Butanone (MEK)	ug/L	40	38.4	96	45-155	
2-Chlorotoluene	ug/L	20	18.2	91	69-119	
2-Hexanone	ug/L	40	38.4	96	50-151	
4-Chlorotoluene	ug/L	20	19.4	97	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	38.7	97	61-145	
Acetone	ug/L	40	42.1	105	40-160	
Benzene	ug/L	20	17.3	87	66-123	
Bromobenzene	ug/L	20	19.6	98	68-118	
Bromochloromethane	ug/L	20	20.2	101	72-128	
Bromodichloromethane	ug/L	20	20.1	101	68-129	
Bromoform	ug/L	20	18.5	92	54-118	
Bromomethane	ug/L	20	20.9	105	43-151	
Carbon disulfide	ug/L	20	19.8	99	52-142	
Carbon tetrachloride	ug/L	20	21.2	106	67-135	
Chlorobenzene	ug/L	20	18.7	93	72-116	
Chloroethane	ug/L	20	17.9	89	48-139	
Chloroform	ug/L	20	20.0	100	71-124	
Chloromethane	ug/L	20	21.7	108	40-152	CH
cis-1,2-Dichloroethene	ug/L	20	20.4	102	74-133	
cis-1,3-Dichloropropene	ug/L	10	9.6	96	64-132	
Dibromochloromethane	ug/L	20	19.1	96	60-121	
Dibromomethane	ug/L	20	20.0	100	69-131	
Dichlorodifluoromethane	ug/L	20	21.0	105	40-160	CH
Ethylbenzene	ug/L	20	20.4	102	67-122	
Hexachloro-1,3-butadiene	ug/L	20	21.2	106	55-139	
Isopropylbenzene (Cumene)	ug/L	20	20.0	100	67-124	
m&p-Xylene	ug/L	40	40.3	101	66-122	
Methyl-tert-butyl ether	ug/L	20	19.4	97	65-138	
Methylene chloride	ug/L	20	21.5	108	58-137	
n-Butylbenzene	ug/L	20	20.5	103	68-129	
n-Propylbenzene	ug/L	20	19.5	98	66-126	
Naphthalene	ug/L	20	15.0	75	59-133	
o-Xylene	ug/L	20	19.9	99	69-123	
p-Isopropyltoluene	ug/L	20	18.5	93	69-127	
sec-Butylbenzene	ug/L	20	19.7	99	68-129	
Styrene	ug/L	20	19.3	96	72-125	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 116787

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	19.0	95	58-120	
Tetrachloroethene	ug/L	20	20.4	102	40-115	
Toluene	ug/L	20	19.4	97	64-118	
trans-1,2-Dichloroethene	ug/L	20	19.2	96	70-134	
trans-1,3-Dichloropropene	ug/L	10	8.0	80	52-115	
Trichloroethene	ug/L	20	20.7	103	69-125	
Trichlorofluoromethane	ug/L	20	21.4	107	57-155	CH
Vinyl chloride	ug/L	20	21.9	109	53-132	CH
Xylene (Total)	ug/L	60	60.2	100	68-122	
1,2-Dichloroethane-d4 (S)	%			99	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			102	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116788

116789

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2512090044 Result	Spike Conc.	Spike Conc.	Conc.							
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	21.2	21.6	106	108	67-132	2	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.7	22.3	108	111	67-145	3	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	19.2	19.6	96	98	65-135	2	23	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.9	21.2	105	106	67-126	1	22	
1,1-Dichloroethane	ug/L	ND	20	20	21.5	22.0	107	110	69-138	2	21	
1,1-Dichloroethene	ug/L	ND	20	20	22.2	22.6	111	113	68-160	2	21	
1,1-Dichloropropene	ug/L	ND	20	20	22.2	22.9	111	115	68-145	3	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.1	19.7	95	98	57-131	3	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20.6	19.8	103	99	61-123	4	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.9	20.0	94	100	58-130	6	24	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.8	20.2	98	100	60-136	2	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	21.9	21.1	110	106	48-127	4	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.5	20.9	103	105	61-127	2	25	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.3	19.8	96	99	67-126	2	21	
1,2-Dichloroethane	ug/L	ND	20	20	19.9	20.4	99	102	60-138	2	23	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	53.8	47.8	135	119	70-146	12	22	
1,2-Dichloropropane	ug/L	ND	20	20	20.7	21.1	104	105	67-138	2	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.6	20.1	98	101	64-135	3	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.3	20.0	96	100	69-128	3	21	
1,3-Dichloropropane	ug/L	ND	20	20	20.3	20.7	101	103	65-128	2	22	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.9	19.6	95	98	66-124	3	28	
2,2-Dichloropropane	ug/L	ND	20	20	15.1	15.0	76	75	46-160	1	24	
2-Butanone (MEK)	ug/L	ND	40	40	46.0	45.4	115	113	40-140	1	25	
2-Chlorotoluene	ug/L	ND	20	20	18.7	19.1	94	96	67-129	2	20	
2-Hexanone	ug/L	ND	40	40	42.2	44.5	105	111	42-141	5	27	
4-Chlorotoluene	ug/L	ND	20	20	19.9	20.4	99	102	67-133	2	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	40.9	40.9	102	102	54-151	.02	27	
Acetone	ug/L	ND	40	40	51.7	48.7	129	122	40-155	6	30	
Benzene	ug/L	ND	20	20	18.8	19.2	94	96	63-138	2	24	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

Parameter	2512090044		MS		MSD		MS		MSD		Max		Qual
	Units	Result	Spike Conc.	MS Spike Conc.	MS Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec	Limits	RPD	
Bromobenzene	ug/L	ND	20	20	20.3	20.7	102	103	64-127	2	21		
Bromochloromethane	ug/L	ND	20	20	21.5	21.9	107	109	66-136	2	22		
Bromodichloromethane	ug/L	ND	20	20	20.6	21.1	103	106	65-138	2	23		
Bromoform	ug/L	ND	20	20	19.8	19.6	99	98	51-119	1	23		
Bromomethane	ug/L	ND	20	20	21.2	21.8	106	109	40-158	3	26		
Carbon disulfide	ug/L	ND	20	20	22.8	22.9	113	114	56-158	.7	23		
Carbon tetrachloride	ug/L	ND	20	20	22.7	23.2	113	116	66-152	2	22		
Chlorobenzene	ug/L	ND	20	20	19.8	20.3	99	101	68-128	2	27		
Chloroethane	ug/L	ND	20	20	20.0	20.0	100	100	49-154	.3	25		
Chloroform	ug/L	ND	20	20	21.3	21.6	107	108	69-137	1	21		
Chloromethane	ug/L	ND	20	20	22.9	23.5	114	117	40-160	3	25	CH	
cis-1,2-Dichloroethene	ug/L	ND	20	20	31.6	25.6	158	128	69-147	21	21	M1	
cis-1,3-Dichloropropene	ug/L	ND	10	10	10.0	10.0	100	100	60-141	.2	23		
Dibromochloromethane	ug/L	ND	20	20	20.8	20.6	104	103	56-125	1	23		
Dibromomethane	ug/L	ND	20	20	20.5	20.8	102	104	63-137	1	23		
Dichlorodifluoromethane	ug/L	ND	20	20	20.5	20.9	102	104	40-160	2	24	CH	
Ethylbenzene	ug/L	ND	20	20	21.8	21.9	109	109	65-135	.6	25		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.2	22.5	106	112	50-149	6	19		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.0	21.6	105	108	64-137	3	27		
m&p-Xylene	ug/L	ND	40	40	43.3	43.6	108	109	63-134	.7	25		
Methyl-tert-butyl ether	ug/L	ND	20	20	20.8	20.8	104	104	59-143	.3	26		
Methylene chloride	ug/L	ND	20	20	20.9	21.9	104	109	52-133	5	23		
n-Butylbenzene	ug/L	ND	20	20	20.6	21.7	103	108	65-143	5	20		
n-Propylbenzene	ug/L	ND	20	20	20.2	20.8	101	104	64-141	3	25		
Naphthalene	ug/L	ND	20	20	17.2	17.9	86	90	48-141	4	29		
o-Xylene	ug/L	ND	20	20	21.1	21.4	105	107	68-131	1	23		
p-Isopropyltoluene	ug/L	ND	20	20	19.2	20.0	96	100	69-137	4	21		
sec-Butylbenzene	ug/L	ND	20	20	20.1	21.1	100	106	69-139	5	20		
Styrene	ug/L	ND	20	20	20.2	20.6	101	103	67-135	2	23		
tert-Butylbenzene	ug/L	ND	20	20	19.7	20.4	99	102	61-129	3	21		
Tetrachloroethene	ug/L	ND	20	20	21.8	22.0	109	110	40-122	.7	21		
Toluene	ug/L	ND	20	20	21.1	21.0	105	105	64-128	.6	24		
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.2	22.2	111	111	66-150	.03	21		
trans-1,3-Dichloropropene	ug/L	ND	10	10	8.4	8.4	84	84	51-116	.1	23		
Trichloroethene	ug/L	ND	20	20	23.1	22.2	116	111	68-135	4	21		
Trichlorofluoromethane	ug/L	ND	20	20	23.0	23.3	115	117	54-160	1	23	CH	
Vinyl chloride	ug/L	ND	20	20	23.7	24.1	118	121	45-155	2	22	CH	
Xylene (Total)	ug/L	ND	60	60	64.4	65.0	107	108	65-133	1	25		
1,2-Dichloroethane-d4 (S)	%						96	97	72-127				
4-Bromofluorobenzene (S)	%						88	88	79-121				
Dibromofluoromethane (S)	%						101	102	81-119				
Toluene-d8 (S)	%						101	100	77-120				

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MSV/7102 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics  
 Associated Lab Samples: 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

METHOD BLANK: 117121 Matrix: Solid  
 Associated Lab Samples: 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1,1-Trichloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1,2,2-Tetrachloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1,2-Trichloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1,2-Trichlorotrifluoroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1-Dichloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1-Dichloroethene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,1-Dichloropropene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2,3-Trichlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2,3-Trichloropropane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2,4-Trichlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2,4-Trimethylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2-Dibromo-3-chloropropane	ug/kg	<2.5	5.0	05/30/12 11:30	
1,2-Dibromoethane (EDB)	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2-Dichlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2-Dichloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,2-Dichloroethene (Total)	ug/kg	<3.0	6.0	05/30/12 11:30	
1,2-Dichloropropane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,3,5-Trimethylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,3-Dichlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
1,3-Dichloropropane	ug/kg	<1.5	3.0	05/30/12 11:30	
1,4-Dichlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
2,2-Dichloropropane	ug/kg	<1.5	3.0	05/30/12 11:30	
2-Butanone (MEK)	ug/kg	<5.0	10.0	05/30/12 11:30	
2-Chlorotoluene	ug/kg	<1.5	3.0	05/30/12 11:30	
2-Hexanone	ug/kg	<5.0	10.0	05/30/12 11:30	
4-Chlorotoluene	ug/kg	<1.5	3.0	05/30/12 11:30	
4-Methyl-2-pentanone (MIBK)	ug/kg	<5.0	10.0	05/30/12 11:30	
Acetone	ug/kg	<5.0	10.0	05/30/12 11:30	
Benzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Bromobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Bromochloromethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Bromodichloromethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Bromoform	ug/kg	<1.5	3.0	05/30/12 11:30	
Bromomethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Carbon disulfide	ug/kg	<1.5	3.0	05/30/12 11:30	
Carbon tetrachloride	ug/kg	<1.5	3.0	05/30/12 11:30	
Chlorobenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Chloroethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Chloroform	ug/kg	<1.5	3.0	05/30/12 11:30	
Chloromethane	ug/kg	<1.5	3.0	05/30/12 11:30	
cis-1,2-Dichloroethene	ug/kg	<1.5	3.0	05/30/12 11:30	
cis-1,3-Dichloropropene	ug/kg	<1.5	3.0	05/30/12 11:30	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

METHOD BLANK: 117121

Matrix: Solid

Associated Lab Samples: 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Dibromomethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Dichlorodifluoromethane	ug/kg	<1.5	3.0	05/30/12 11:30	CL
Ethylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Hexachloro-1,3-butadiene	ug/kg	<1.5	3.0	05/30/12 11:30	
Isopropylbenzene (Cumene)	ug/kg	<1.5	3.0	05/30/12 11:30	
m&p-Xylene	ug/kg	<3.0	6.0	05/30/12 11:30	
Methyl-tert-butyl ether	ug/kg	<1.5	3.0	05/30/12 11:30	
Methylene chloride	ug/kg	<5.0	10.0	05/30/12 11:30	
n-Butylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
n-Propylbenzene	ug/kg	2.0J	3.0	05/30/12 11:30	
Naphthalene	ug/kg	<1.5	3.0	05/30/12 11:30	
o-Xylene	ug/kg	<1.5	3.0	05/30/12 11:30	
p-Isopropyltoluene	ug/kg	<1.5	3.0	05/30/12 11:30	
sec-Butylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Styrene	ug/kg	<1.5	3.0	05/30/12 11:30	
tert-Amylmethyl ether	ug/kg	<1.5	3.0	05/30/12 11:30	CL
tert-Butylbenzene	ug/kg	<1.5	3.0	05/30/12 11:30	
Tetrachloroethene	ug/kg	<1.5	3.0	05/30/12 11:30	
Toluene	ug/kg	<1.5	3.0	05/30/12 11:30	
trans-1,2-Dichloroethene	ug/kg	<1.5	3.0	05/30/12 11:30	
trans-1,3-Dichloropropene	ug/kg	<1.5	3.0	05/30/12 11:30	
Trichloroethene	ug/kg	<1.5	3.0	05/30/12 11:30	
Trichlorofluoromethane	ug/kg	<1.5	3.0	05/30/12 11:30	
Vinyl chloride	ug/kg	<1.5	3.0	05/30/12 11:30	
Xylene (Total)	ug/kg	<4.5	9.0	05/30/12 11:30	
1,2-Dichloroethane-d4 (S)	%	105	68-141	05/30/12 11:30	
4-Bromofluorobenzene (S)	%	115	68-141	05/30/12 11:30	
Dibromofluoromethane (S)	%	99	74-126	05/30/12 11:30	
Toluene-d8 (S)	%	109	71-130	05/30/12 11:30	

LABORATORY CONTROL SAMPLE & LCSD: 117122

117312

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	17.8	19.1	89	95	75-126	7	34	
1,1,1-Trichloroethane	ug/kg	20	18.0	18.3	90	92	65-147	2	37	
1,1,2,2-Tetrachloroethane	ug/kg	20	20.3	19.1	102	96	65-129	6	39	
1,1,2-Trichloroethane	ug/kg	20	18.2	19.2	91	96	71-125	5	29	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	19.3	19.0	97	95	53-160	2	40	
1,1-Dichloroethane	ug/kg	20	16.8	18.0	84	90	71-136	7	37	
1,1-Dichloroethene	ug/kg	20	18.7	19.2	93	96	56-160	3	40	
1,1-Dichloropropene	ug/kg	20	15.4	17.6	77	88	60-145	13	37	
1,2,3-Trichlorobenzene	ug/kg	20	17.2	19.2	86	96	69-124	11	40	
1,2,3-Trichloropropane	ug/kg	20	19.2	19.1	96	96	71-119	.6	35	
1,2,4-Trichlorobenzene	ug/kg	20	18.6	20.8	93	104	69-127	11	32	



### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE & LCSD:		117122	117312							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	17.5	19.5	87	97	69-127	11	40	
1,2-Dibromo-3-chloropropane	ug/kg	20	20.5	19.6	103	98	55-132	5	40	
1,2-Dibromoethane (EDB)	ug/kg	20	17.4	18.4	87	92	73-125	6	38	
1,2-Dichlorobenzene	ug/kg	20	18.0	19.4	90	97	77-118	8	34	
1,2-Dichloroethane	ug/kg	20	17.1	17.3	86	86	67-137	.8	32	
1,2-Dichloroethene (Total)	ug/kg	40	32.5	35.4	81	88	71-141	8	39	
1,2-Dichloropropane	ug/kg	20	17.9	18.2	89	91	72-133	2	32	
1,3,5-Trimethylbenzene	ug/kg	20	17.4	19.5	87	97	70-129	11	40	
1,3-Dichlorobenzene	ug/kg	20	17.0	18.1	85	90	76-122	6	33	
1,3-Dichloropropane	ug/kg	20	18.3	18.9	92	94	72-125	3	27	
1,4-Dichlorobenzene	ug/kg	20	16.6	18.4	83	92	76-119	10	31	
2,2-Dichloropropane	ug/kg	20	17.6	17.2	88	86	57-156	3	34	
2-Butanone (MEK)	ug/kg	40	41.2	39.8	103	99	40-160	3	40	
2-Chlorotoluene	ug/kg	20	16.9	18.4	85	92	70-123	9	40	
2-Hexanone	ug/kg	40	38.1	35.3	95	88	40-160	8	33	
4-Chlorotoluene	ug/kg	20	17.8	19.8	89	99	74-127	11	37	
4-Methyl-2-pentanone (MIBK)	ug/kg	40	36.0	31.9	90	80	58-143	12	35	
Acetone	ug/kg	40	44.4	36.0	111	90	40-160	21	40	
Benzene	ug/kg	20	14.0	15.3	70	76	67-133	9	36	
Bromobenzene	ug/kg	20	18.4	20.1	92	100	77-121	9	33	
Bromochloromethane	ug/kg	20	17.1	17.0	86	85	73-132	.6	38	
Bromodichloromethane	ug/kg	20	18.0	19.3	90	96	71-130	7	29	
Bromoform	ug/kg	20	18.4	17.3	92	86	65-127	6	31	
Bromomethane	ug/kg	20	23.9	21.7	119	108	41-160	10	31	
Carbon disulfide	ug/kg	20	23.8	24.3	119	121	40-160	2	38	
Carbon tetrachloride	ug/kg	20	18.5	19.4	93	97	59-157	4	36	
Chlorobenzene	ug/kg	20	17.1	18.8	86	94	78-123	9	31	
Chloroethane	ug/kg	20	23.8	23.5	119	118	54-153	1	40	
Chloroform	ug/kg	20	16.0	17.8	80	89	74-132	11	36	
Chloromethane	ug/kg	20	22.4	21.8	112	109	40-149	3	40	
cis-1,2-Dichloroethene	ug/kg	20	16.2	17.9	81	89	73-137	9	36	
cis-1,3-Dichloropropene	ug/kg	10	8.5	9.0	85	90	63-140	6	37	
Dibromochloromethane	ug/kg	20	17.9	18.3	90	91	71-122	2	31	
Dibromomethane	ug/kg	20	18.3	17.7	92	88	73-131	4	28	
Dichlorodifluoromethane	ug/kg	20	23.1	24.4	115	122	40-160	6	40 CL	
Ethylbenzene	ug/kg	20	17.9	20.2	90	101	70-124	12	39	
Hexachloro-1,3-butadiene	ug/kg	20	16.2	19.5	81	97	59-141	18	40	
Isopropylbenzene (Cumene)	ug/kg	20	18.1	20.4	91	102	72-131	11	39	
m&p-Xylene	ug/kg	40	37.8	42.1	95	105	66-129	11	39	
Methyl-tert-butyl ether	ug/kg	20	14.7	13.8	73	69	69-136	6	40	
Methylene chloride	ug/kg	20	16.2	20.4	81	102	53-160	23	30	
n-Butylbenzene	ug/kg	20	17.2	19.8	86	99	65-134	14	39	
n-Propylbenzene	ug/kg	20	15.7	17.7	78	89	62-135	12	38	
Naphthalene	ug/kg	20	18.9	20.4	94	102	63-129	8	38	
o-Xylene	ug/kg	20	18.0	20.0	90	100	70-125	11	39	
p-Isopropyltoluene	ug/kg	20	17.0	19.2	85	96	68-130	12	40	
sec-Butylbenzene	ug/kg	20	15.5	17.7	77	88	61-137	13	40	
Styrene	ug/kg	20	18.0	19.4	90	97	77-124	7	34	

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE & LCSD:		117122	117312									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers		
tert-Amylmethyl ether	ug/kg	20	6.9	7.0	35	35	55-150	1	39	CL,L0		
tert-Butylbenzene	ug/kg	20	17.2	19.5	86	98	69-132	13	40			
Tetrachloroethene	ug/kg	20	16.3	19.4	82	97	52-148	18	34			
Toluene	ug/kg	20	15.7	18.7	78	94	67-129	18	38			
trans-1,2-Dichloroethene	ug/kg	20	16.3	17.5	81	88	69-146	7	40			
trans-1,3-Dichloropropene	ug/kg	10	8.9	8.9	89	89	63-133	.6	36			
Trichloroethene	ug/kg	20	16.0	17.7	80	89	69-137	10	33			
Trichlorofluoromethane	ug/kg	20	23.2	22.8	116	114	50-156	2	40			
Vinyl chloride	ug/kg	20	22.8	22.6	114	113	41-156	.9	35			
Xylene (Total)	ug/kg	60	55.8	62.1	93	104	68-127	11	39			
1,2-Dichloroethane-d4 (S)	%				112	104	68-141					
4-Bromofluorobenzene (S)	%				106	105	68-141					
Dibromofluoromethane (S)	%				105	101	74-126					
Toluene-d8 (S)	%				100	104	71-130					

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: MSV/7082 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water  
 Associated Lab Samples: 2512229009, 2512229010, 2512229011, 2512229012, 2512229013, 2512229014, 2512229015, 2512229016, 2512229017, 2512229018

METHOD BLANK: 116823 Matrix: Water  
 Associated Lab Samples: 2512229009, 2512229010, 2512229011, 2512229012, 2512229013, 2512229014, 2512229015, 2512229016, 2512229017, 2512229018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/27/12 03:38	
4-Bromofluorobenzene (S)	%	103	50-150	05/27/12 03:38	

LABORATORY CONTROL SAMPLE: 116824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	479	96	65-139	
4-Bromofluorobenzene (S)	%			95	50-150	

SAMPLE DUPLICATE: 117676

Parameter	Units	2512090044 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	ND	<25.0		24	
4-Bromofluorobenzene (S)	%	100	101	1		

SAMPLE DUPLICATE: 117677

Parameter	Units	2512429001 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	11500	13300	14	24	E
4-Bromofluorobenzene (S)	%	70	75	7		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

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QC Batch: MSV/7094 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water  
 Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229007, 2512229008,  
 2512229019, 2512229020

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METHOD BLANK: 117096 Matrix: Water  
 Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229007, 2512229008,  
 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/26/12 03:43	
4-Bromofluorobenzene (S)	%	107	50-150	05/26/12 03:43	

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LABORATORY CONTROL SAMPLE: 117097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	524	105	65-139	
4-Bromofluorobenzene (S)	%			97	50-150	

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MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118011 118012

Parameter	Units	2512090039		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Gasoline Range Organics	ug/L	177	500	500	721	705	109	106	48-147	2	30	
4-Bromofluorobenzene (S)	%						96	96	50-150			

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: OEXT/5581

Analysis Method: EPA 8082

QC Batch Method: EPA 3546

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 2512229023, 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

METHOD BLANK: 117157

Matrix: Solid

Associated Lab Samples: 2512229023, 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1221 (Aroclor 1221)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1232 (Aroclor 1232)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1242 (Aroclor 1242)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1248 (Aroclor 1248)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1254 (Aroclor 1254)	ug/kg	<17.0	17.0	06/01/12 15:28	
PCB-1260 (Aroclor 1260)	ug/kg	<17.0	17.0	06/01/12 15:28	
Decachlorobiphenyl (S)	%	106	20-139	06/01/12 15:28	
Tetrachloro-m-xylene (S)	%	107	30-134	06/01/12 15:28	

LABORATORY CONTROL SAMPLE: 117158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	168	101	57-118	
PCB-1260 (Aroclor 1260)	ug/kg	167	207	124	60-138	
Decachlorobiphenyl (S)	%			107	20-139	
Tetrachloro-m-xylene (S)	%			105	30-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117159 117160

Parameter	Units	2512229023		117160		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/kg	<16.9	166	166	171	103	99	25-130	4	24	
PCB-1260 (Aroclor 1260)	ug/kg	<16.9	166	166	211	127	124	24-138	3	28	
Decachlorobiphenyl (S)	%					109	107	20-139			
Tetrachloro-m-xylene (S)	%					100	95	30-134			

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: OEXT/5545

Analysis Method: EPA 8082

QC Batch Method: EPA 3510

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 2512229002

METHOD BLANK: 115989

Matrix: Water

Associated Lab Samples: 2512229002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1221 (Aroclor 1221)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1232 (Aroclor 1232)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1242 (Aroclor 1242)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1248 (Aroclor 1248)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1254 (Aroclor 1254)	ug/L	<0.50	0.50	05/22/12 19:18	
PCB-1260 (Aroclor 1260)	ug/L	<0.50	0.50	05/22/12 19:18	
Decachlorobiphenyl (S)	%	63	17-122	05/22/12 19:18	
Tetrachloro-m-xylene (S)	%	82	32-117	05/22/12 19:18	

LABORATORY CONTROL SAMPLE: 115990

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.9	98	61-110	
PCB-1260 (Aroclor 1260)	ug/L	5	5.4	109	62-116	
Decachlorobiphenyl (S)	%			77	17-122	
Tetrachloro-m-xylene (S)	%			84	32-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115991

115992

Parameter	Units	2512228001		115992		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
PCB-1016 (Aroclor 1016)	ug/L			11.1	11.1				.04	30
PCB-1260 (Aroclor 1260)	ug/L			12.8	12.7				.2	30
Decachlorobiphenyl (S)	%					96	95	17-122		
Tetrachloro-m-xylene (S)	%					99	98	32-117		

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: OEXT/5555 Analysis Method: EPA 8082  
QC Batch Method: EPA 3510 Analysis Description: 8082 GCS PCB  
Associated Lab Samples: 2512229008, 2512229019, 2512229020

METHOD BLANK: 116262 Matrix: Water  
Associated Lab Samples: 2512229008, 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1221 (Aroclor 1221)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1232 (Aroclor 1232)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1242 (Aroclor 1242)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1248 (Aroclor 1248)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1254 (Aroclor 1254)	ug/L	<0.50	0.50	05/24/12 23:18	
PCB-1260 (Aroclor 1260)	ug/L	<0.50	0.50	05/24/12 23:18	
Decachlorobiphenyl (S)	%	51	17-122	05/24/12 23:18	
Tetrachloro-m-xylene (S)	%	91	32-117	05/24/12 23:18	

LABORATORY CONTROL SAMPLE: 116263

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	4.7	94	61-110	
PCB-1260 (Aroclor 1260)	ug/L	5	4.7	93	62-116	
Decachlorobiphenyl (S)	%			48	17-122	
Tetrachloro-m-xylene (S)	%			88	32-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116264 116265

Parameter	Units	2512229020		116265		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/L	<0.48	9.6	9.6	9.4	98	101	64-110	3	30	
PCB-1260 (Aroclor 1260)	ug/L	<0.48	9.6	9.6	10.1	105	106	55-121	.8	30	
Decachlorobiphenyl (S)	%					55	57	17-122			
Tetrachloro-m-xylene (S)	%					96	100	32-117			

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: OEXT/5582 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM  
Associated Lab Samples: 2512229023, 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

METHOD BLANK: 117165 Matrix: Solid  
Associated Lab Samples: 2512229023, 2512229025, 2512229026, 2512229027, 2512229029, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<6.7	6.7	06/05/12 18:20	
2-Methylnaphthalene	ug/kg	9.4	6.7	06/05/12 18:20	
Acenaphthene	ug/kg	<6.7	6.7	06/05/12 18:20	
Acenaphthylene	ug/kg	<6.7	6.7	06/05/12 18:20	
Anthracene	ug/kg	<6.7	6.7	06/05/12 18:20	
Benzo(a)anthracene	ug/kg	<6.7	6.7	06/05/12 18:20	
Benzo(a)pyrene	ug/kg	<6.7	6.7	06/05/12 18:20	
Benzo(b)fluoranthene	ug/kg	<6.7	6.7	06/05/12 18:20	
Benzo(g,h,i)perylene	ug/kg	<6.7	6.7	06/05/12 18:20	
Benzo(k)fluoranthene	ug/kg	<6.7	6.7	06/05/12 18:20	
Chrysene	ug/kg	<6.7	6.7	06/05/12 18:20	
Dibenz(a,h)anthracene	ug/kg	<6.7	6.7	06/05/12 18:20	
Fluoranthene	ug/kg	<6.7	6.7	06/05/12 18:20	
Fluorene	ug/kg	<6.7	6.7	06/05/12 18:20	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.7	6.7	06/05/12 18:20	
Naphthalene	ug/kg	17.5	6.7	06/05/12 18:20	
Phenanthrene	ug/kg	<6.7	6.7	06/05/12 18:20	
Pyrene	ug/kg	<6.7	6.7	06/05/12 18:20	
2-Fluorobiphenyl (S)	%	73	27-118	06/05/12 18:20	
Terphenyl-d14 (S)	%	79	28-125	06/05/12 18:20	

LABORATORY CONTROL SAMPLE: 117166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	133	96.1	72	39-110	
2-Methylnaphthalene	ug/kg	133	102	76	39-110	
Acenaphthene	ug/kg	133	98.1	74	39-111	
Acenaphthylene	ug/kg	133	96.8	73	37-110	
Anthracene	ug/kg	133	102	76	40-113	
Benzo(a)anthracene	ug/kg	133	115	86	42-122	
Benzo(a)pyrene	ug/kg	133	118	88	44-132	
Benzo(b)fluoranthene	ug/kg	133	102	77	40-124	
Benzo(g,h,i)perylene	ug/kg	133	106	79	39-122	
Benzo(k)fluoranthene	ug/kg	133	102	76	44-123	
Chrysene	ug/kg	133	116	87	42-120	
Dibenz(a,h)anthracene	ug/kg	133	124	93	40-122	
Fluoranthene	ug/kg	133	98.3	74	42-116	
Fluorene	ug/kg	133	107	80	41-112	
Indeno(1,2,3-cd)pyrene	ug/kg	133	125	94	39-124	
Naphthalene	ug/kg	133	94.6	71	36-110	
Phenanthrene	ug/kg	133	100	75	42-115	



**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 117166

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	133	96.3	72	44-121	
2-Fluorobiphenyl (S)	%			73	27-118	
Terphenyl-d14 (S)	%			81	28-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117167 117168

Parameter	Units	2512229023		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
1-Methylnaphthalene	ug/kg	<6.7	133	133	133	82.7	85.8	62	65	28-120	4	33
2-Methylnaphthalene	ug/kg	<6.7	133	133	133	91.6	94.1	69	71	26-121	3	31
Acenaphthene	ug/kg	<6.7	133	133	133	89.5	87.5	67	66	27-122	2	33
Acenaphthylene	ug/kg	<6.7	133	133	133	89.1	86.8	67	65	24-120	3	32
Anthracene	ug/kg	<6.7	133	133	133	86.0	79.3	65	60	20-130	8	31
Benzo(a)anthracene	ug/kg	<6.7	133	133	133	90.9	81.3	68	61	20-136	11	38
Benzo(a)pyrene	ug/kg	<6.7	133	133	133	88.7	77.7	67	59	20-141	13	38
Benzo(b)fluoranthene	ug/kg	<6.7	133	133	133	76.6	66.0	58	50	12-136	15	38
Benzo(g,h,i)perylene	ug/kg	<6.7	133	133	133	77.0	69.2	58	52	10-132	11	39
Benzo(k)fluoranthene	ug/kg	<6.7	133	133	133	81.7	74.0	62	56	22-131	10	38
Chrysene	ug/kg	<6.7	133	133	133	93.9	82.1	71	62	16-132	13	38
Dibenz(a,h)anthracene	ug/kg	<6.7	133	133	133	95.7	82.1	72	62	22-121	15	39
Fluoranthene	ug/kg	<6.7	133	133	133	83.7	74.4	63	56	21-129	12	38
Fluorene	ug/kg	<6.7	133	133	133	98.8	96.2	74	73	26-130	3	35
Indeno(1,2,3-cd)pyrene	ug/kg	<6.7	133	133	133	91.4	81.4	69	61	14-131	12	39
Naphthalene	ug/kg	<6.7	133	133	133	87.2	89.1	65	67	19-123	2	32
Phenanthrene	ug/kg	<6.7	133	133	133	93.4	85.1	70	64	19-135	9	37
Pyrene	ug/kg	<6.7	133	133	133	85.4	76.0	64	57	18-136	12	39
2-Fluorobiphenyl (S)	%							66	61	27-118		
Terphenyl-d14 (S)	%							64	54	28-125		

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512229

QC Batch: OEXT/5551 Analysis Method: EPA 8270 by SIM  
QC Batch Method: EPA 3510 Analysis Description: 8270 PAH SIM  
Associated Lab Samples: 2512229019, 2512229020

METHOD BLANK: 116078 Matrix: Water  
Associated Lab Samples: 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.050	0.10	05/26/12 16:51	
2-Methylnaphthalene	ug/L	<0.050	0.10	05/26/12 16:51	
Acenaphthene	ug/L	<0.050	0.10	05/26/12 16:51	
Acenaphthylene	ug/L	<0.050	0.10	05/26/12 16:51	
Anthracene	ug/L	<0.050	0.10	05/26/12 16:51	
Benzo(a)anthracene	ug/L	<0.050	0.10	05/26/12 16:51	
Benzo(a)pyrene	ug/L	<0.050	0.10	05/26/12 16:51	
Benzo(b)fluoranthene	ug/L	<0.050	0.10	05/26/12 16:51	
Benzo(g,h,i)perylene	ug/L	<0.050	0.10	05/26/12 16:51	
Benzo(k)fluoranthene	ug/L	<0.050	0.10	05/26/12 16:51	
Chrysene	ug/L	<0.050	0.10	05/26/12 16:51	
Dibenz(a,h)anthracene	ug/L	<0.050	0.10	05/26/12 16:51	
Fluoranthene	ug/L	<0.050	0.10	05/26/12 16:51	
Fluorene	ug/L	<0.050	0.10	05/26/12 16:51	
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.10	05/26/12 16:51	
Naphthalene	ug/L	<0.050	0.10	05/26/12 16:51	
Phenanthrene	ug/L	<0.050	0.10	05/26/12 16:51	
Pyrene	ug/L	<0.050	0.10	05/26/12 16:51	
2-Fluorobiphenyl (S)	%	85	21-110	05/26/12 16:51	
Terphenyl-d14 (S)	%	101	32-123	05/26/12 16:51	

LABORATORY CONTROL SAMPLE: 116079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	4	3.1	78	26-110	
2-Methylnaphthalene	ug/L	4	3.5	86	25-110	
Acenaphthene	ug/L	4	3.4	85	35-110	
Acenaphthylene	ug/L	4	3.3	82	35-110	
Anthracene	ug/L	4	3.2	79	37-110	
Benzo(a)anthracene	ug/L	4	3.8	95	51-114	
Benzo(a)pyrene	ug/L	4	3.5	87	48-125	
Benzo(b)fluoranthene	ug/L	4	3.0	75	51-116	
Benzo(g,h,i)perylene	ug/L	4	2.3	58	46-115	
Benzo(k)fluoranthene	ug/L	4	3.0	74	49-124	
Chrysene	ug/L	4	3.7	92	50-115	
Dibenz(a,h)anthracene	ug/L	4	2.6	66	48-114	
Fluoranthene	ug/L	4	3.1	79	50-111	
Fluorene	ug/L	4	3.6	91	39-110	
Indeno(1,2,3-cd)pyrene	ug/L	4	2.8	71	48-116	
Naphthalene	ug/L	4	3.2	79	27-110	
Phenanthrene	ug/L	4	3.4	84	50-110	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

LABORATORY CONTROL SAMPLE: 116079

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	4	3.1	77	51-117	
2-Fluorobiphenyl (S)	%			79	21-110	
Terphenyl-d14 (S)	%			87	32-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116080 116081

Parameter	Units	2512090039		MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec					
1-Methylnaphthalene	ug/L	ND		3.8	3.8	2.5	2.4	63	62	16-110	3	37		
2-Methylnaphthalene	ug/L	ND		3.8	3.8	2.8	2.7	71	69	13-115	4	33		
Acenaphthene	ug/L	ND		3.8	3.8	2.2	3.1	58	81	29-110	33	33		
Acenaphthylene	ug/L	ND		3.8	3.8	2.2	2.9	57	77	29-110	28	32		
Anthracene	ug/L	ND		3.8	3.8	2.7	2.7	69	70	26-110	.7	27		
Benzo(a)anthracene	ug/L	ND		3.8	3.8	2.5	2.9	66	77	35-113	15	24		
Benzo(a)pyrene	ug/L	ND		3.8	3.8	1.9	2.4	50	63	22-121	23	26		
Benzo(b)fluoranthene	ug/L	ND		3.8	3.8	1.7	2.0	45	53	29-114	16	31		
Benzo(g,h,i)perylene	ug/L	ND		3.8	3.8	1.3	1.7	35	46	18-110	25	32		
Benzo(k)fluoranthene	ug/L	ND		3.8	3.8	1.7	2.2	45	56	21-125	22	28		
Chrysene	ug/L	ND		3.8	3.8	2.2	2.7	57	72	33-112	22	26		
Dibenz(a,h)anthracene	ug/L	ND		3.8	3.8	1.5	2.0	39	52	23-110	29	31		
Fluoranthene	ug/L	ND		3.8	3.8	2.6	2.7	69	71	32-114	2	25		
Fluorene	ug/L	ND		3.8	3.8	2.4	3.3	63	86	28-111	30	33		
Indeno(1,2,3-cd)pyrene	ug/L	ND		3.8	3.8	1.6	2.0	40	53	23-110	27	32		
Naphthalene	ug/L	ND		3.8	3.8	2.6	2.4	66	62	17-110	7	29		
Phenanthrene	ug/L	ND		3.8	3.8	3.0	3.0	77	76	35-110	2	27		
Pyrene	ug/L	ND		3.8	3.8	2.5	2.6	64	67	35-115	4	25		
2-Fluorobiphenyl (S)	%							57	76	21-110				
Terphenyl-d14 (S)	%							49	71	32-123				

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: OEXT/5569 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3546 Analysis Description: NWTPH-Dx GCS  
 Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

METHOD BLANK: 116718 Matrix: Solid

Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	<8.0	16.0	05/26/12 04:17	
Motor Oil Range SG	mg/kg	<32.0	64.0	05/26/12 04:17	
n-Octacosane (S) SG	%	107	50-150	05/26/12 04:17	
o-Terphenyl (S) SG	%	94	50-150	05/26/12 04:17	

LABORATORY CONTROL SAMPLE: 116719

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	400	381	95	69-113	
Motor Oil Range SG	mg/kg	400	435	109	75-119	
n-Octacosane (S) SG	%			109	50-150	
o-Terphenyl (S) SG	%			97	50-150	

SAMPLE DUPLICATE: 116720

Parameter	Units	2512229021 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/kg	<10.9	<10.8			50
Motor Oil Range SG	mg/kg	<43.7	<43.4			48
n-Octacosane (S) SG	%	102	102	.3		
o-Terphenyl (S) SG	%	92	93	.2		

SAMPLE DUPLICATE: 116721

Parameter	Units	2512229032 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/kg	439	408	7		50
Motor Oil Range SG	mg/kg	3400	2800	19		48
n-Octacosane (S) SG	%	116	107	8		
o-Terphenyl (S) SG	%	96	100	3		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: OEXT/5589 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG  
 Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229007, 2512229008

METHOD BLANK: 117320 Matrix: Water  
 Associated Lab Samples: 2512229001, 2512229002, 2512229003, 2512229004, 2512229005, 2512229006, 2512229007, 2512229008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	<0.040	0.080	05/31/12 20:02	
Motor Oil Range SG	mg/L	<0.20	0.40	05/31/12 20:02	
n-Octacosane (S) SG	%	110	50-150	05/31/12 20:02	
o-Terphenyl (S) SG	%	99	50-150	05/31/12 20:02	

LABORATORY CONTROL SAMPLE: 117321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	3.9	97	59-114	
Motor Oil Range SG	mg/L	4	4.2	105	69-124	
n-Octacosane (S) SG	%			110	50-150	
o-Terphenyl (S) SG	%			100	50-150	

SAMPLE DUPLICATE: 117322

Parameter	Units	2512229001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	<0.043	<0.042			39
Motor Oil Range SG	mg/L	<0.21	<0.21			38
n-Octacosane (S) SG	%	105	108	2		
o-Terphenyl (S) SG	%	95	96	.3		

SAMPLE DUPLICATE: 117323

Parameter	Units	2512200005 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	ND	<0.038			39
Motor Oil Range SG	mg/L	ND	<0.19			38
n-Octacosane (S) SG	%	110	109	.8		
o-Terphenyl (S) SG	%	99	98	1		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: OEXT/5594

Analysis Method: NWTPH-Dx

QC Batch Method: EPA 3510

Analysis Description: NWTPH-Dx GCS SG

Associated Lab Samples: 2512229019, 2512229020

METHOD BLANK: 117527

Matrix: Water

Associated Lab Samples: 2512229019, 2512229020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	<0.040	0.080	06/01/12 19:38	
Motor Oil Range SG	mg/L	<0.20	0.40	06/01/12 19:38	
n-Octacosane (S) SG	%	107	50-150	06/01/12 19:38	
o-Terphenyl (S) SG	%	97	50-150	06/01/12 19:38	

LABORATORY CONTROL SAMPLE: 117528

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	4.1	102	59-114	
Motor Oil Range SG	mg/L	4	4.5	112	69-124	
n-Octacosane (S) SG	%			108	50-150	
o-Terphenyl (S) SG	%			96	50-150	

SAMPLE DUPLICATE: 117529

Parameter	Units	2512229019 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	<0.038	<0.039			39
Motor Oil Range SG	mg/L	<0.19	<0.20			38
n-Octacosane (S) SG	%	107	106	2		
o-Terphenyl (S) SG	%	96	97	4		

SAMPLE DUPLICATE: 117562

Parameter	Units	2512369001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	ND	<0.040			39
Motor Oil Range SG	mg/L	ND	<0.20			38
n-Octacosane (S) SG	%	108	108	.1		
o-Terphenyl (S) SG	%	97	97	.7		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512229

QC Batch: PMST/2054 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 2512229021, 2512229024, 2512229025, 2512229026, 2512229027, 2512229028, 2512229029, 2512229030, 2512229031, 2512229032

SAMPLE DUPLICATE: 116227

Parameter	Units	10192342003 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	86.6	86.7	.1	30	

## QUALIFIERS

Project: Heritage Square

Pace Project No.: 2512229

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-S Pace Analytical Services - Seattle

### BATCH QUALIFIERS

Batch: MSV/7102

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

1n Analyte was detected in the associated method blank. However, this sample had a concentration over ten times greater than the blank, results unaffected by bias.

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

CL The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased low.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

D4 Sample was diluted due to the presence of high levels of target analytes.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.



**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Heritage Square

Pace Project No.: 2512229

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512229023	DP05-15	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229025	DP13-2	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229026	DP14-2.5	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229027	DP15-1.5	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229029	DP17-1.5	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229031	DP19-2.5	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229032	SOILDUP3	EPA 3546	OEXT/5581	EPA 8082	GCSV/3572
2512229002	DP13-051712	EPA 3510	OEXT/5545	EPA 8082	GCSV/3549
2512229008	DP19-051712	EPA 3510	OEXT/5555	EPA 8082	GCSV/3556
2512229019	Rinsate Soil	EPA 3510	OEXT/5555	EPA 8082	GCSV/3556
2512229020	Rinsate Water	EPA 3510	OEXT/5555	EPA 8082	GCSV/3556
2512229021	DP05-2	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229024	DP12-1.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229025	DP13-2	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229026	DP14-2.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229027	DP15-1.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229028	DP16-3	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229029	DP17-1.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229030	DP18-1.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229031	DP19-2.5	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229032	SOILDUP3	EPA 3546	OEXT/5569	NWTPH-Dx	GCSV/3565
2512229001	DP12-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229002	DP13-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229003	DP14-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229004	DP15-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229005	DP16-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229006	DP17-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229007	DP18-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229008	DP19-051712	EPA 3510	OEXT/5589	NWTPH-Dx	GCSV/3575
2512229019	Rinsate Soil	EPA 3510	OEXT/5594	NWTPH-Dx	GCSV/3579
2512229020	Rinsate Water	EPA 3510	OEXT/5594	NWTPH-Dx	GCSV/3579
2512229021	DP05-2	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229024	DP12-1.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229025	DP13-2	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229026	DP14-2.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229027	DP15-1.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229028	DP16-3	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229029	DP17-1.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229030	DP18-1.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229031	DP19-2.5	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229032	SOILDUP3	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512229021	DP05-2	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229024	DP12-1.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229025	DP13-2	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229026	DP14-2.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946

**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Heritage Square

Pace Project No.: 2512229

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512229027	DP15-1.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229028	DP16-3	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229029	DP17-1.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229030	DP18-1.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229031	DP19-2.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229032	SOILDUP3	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512229001	DP12-051712	EPA 6020	ICPM/32623	EPA 6020	ICPM/12933
2512229002	DP13-051712	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229003	DP14-051712	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229004	DP15-051712	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229005	DP16-051712	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229006	DP17-051712	EPA 6020	ICPM/32622	EPA 6020	ICPM/12936
2512229008	DP19-051712	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229019	Rinsate Soil	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229020	Rinsate Water	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512229006	DP17-051712	EPA 6020	ICPM/32664	EPA 6020	ICPM/12914
2512229001	DP12-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229002	DP13-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229003	DP14-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229004	DP15-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229005	DP16-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229006	DP17-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229008	DP19-051712	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229019	Rinsate Soil	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229020	Rinsate Water	EPA 7470	MERP/1694	EPA 7470	MERC/1707
2512229006	DP17-051712	EPA 7470	MERP/1693	EPA 7470	MERC/1706
2512229021	DP05-2	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229024	DP12-1.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229025	DP13-2	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229026	DP14-2.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229027	DP15-1.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229028	DP16-3	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229029	DP17-1.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229030	DP18-1.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229031	DP19-2.5	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229032	SOILDUP3	EPA 7471	MERP/1696	EPA 7471	MERC/1709
2512229023	DP05-15	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229025	DP13-2	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229026	DP14-2.5	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229027	DP15-1.5	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229029	DP17-1.5	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229031	DP19-2.5	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229032	SOILDUP3	EPA 3546	OEXT/5582	EPA 8270 by SIM	MSSV/2104
2512229019	Rinsate Soil	EPA 3510	OEXT/5551	EPA 8270 by SIM	MSSV/2096

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square  
Pace Project No.: 2512229

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512229020	Rinsate Water	EPA 3510	OEXT/5551	EPA 8270 by SIM	MSSV/2096
2512229002	DP13-051712	EPA 5030B/8260	MSV/7075		
2512229008	DP19-051712	EPA 5030B/8260	MSV/7075		
2512229009	TB1-051812	EPA 5030B/8260	MSV/7079		
2512229010	TB2-051812	EPA 5030B/8260	MSV/7079		
2512229011	TB3-051812	EPA 5030B/8260	MSV/7079		
2512229012	TB4-051812	EPA 5030B/8260	MSV/7079		
2512229013	TB5-051812	EPA 5030B/8260	MSV/7079		
2512229014	TB6-051812	EPA 5030B/8260	MSV/7079		
2512229015	TB7-051812	EPA 5030B/8260	MSV/7079		
2512229016	TB8-051812	EPA 5030B/8260	MSV/7079		
2512229017	TB9-051812	EPA 5030B/8260	MSV/7079		
2512229018	TB10-051812	EPA 5030B/8260	MSV/7079		
2512229019	Rinsate Soil	EPA 5030B/8260	MSV/7075		
2512229020	Rinsate Water	EPA 5030B/8260	MSV/7075		
2512229025	DP13-2	EPA 8260	MSV/7102		
2512229026	DP14-2.5	EPA 8260	MSV/7102		
2512229027	DP15-1.5	EPA 8260	MSV/7102		
2512229029	DP17-1.5	EPA 8260	MSV/7102		
2512229031	DP19-2.5	EPA 8260	MSV/7102		
2512229032	SOILDUP3	EPA 8260	MSV/7102		
2512229001	DP12-051712	NWTPH-Gx	MSV/7094		
2512229002	DP13-051712	NWTPH-Gx	MSV/7094		
2512229003	DP14-051712	NWTPH-Gx	MSV/7094		
2512229004	DP15-051712	NWTPH-Gx	MSV/7094		
2512229005	DP16-051712	NWTPH-Gx	MSV/7094		
2512229006	DP17-051712	NWTPH-Gx	MSV/7094		
2512229007	DP18-051712	NWTPH-Gx	MSV/7094		
2512229008	DP19-051712	NWTPH-Gx	MSV/7094		
2512229009	TB1-051812	NWTPH-Gx	MSV/7082		
2512229010	TB2-051812	NWTPH-Gx	MSV/7082		
2512229011	TB3-051812	NWTPH-Gx	MSV/7082		
2512229012	TB4-051812	NWTPH-Gx	MSV/7082		
2512229013	TB5-051812	NWTPH-Gx	MSV/7082		
2512229014	TB6-051812	NWTPH-Gx	MSV/7082		
2512229015	TB7-051812	NWTPH-Gx	MSV/7082		
2512229016	TB8-051812	NWTPH-Gx	MSV/7082		
2512229017	TB9-051812	NWTPH-Gx	MSV/7082		
2512229018	TB10-051812	NWTPH-Gx	MSV/7082		
2512229019	Rinsate Soil	NWTPH-Gx	MSV/7094		
2512229020	Rinsate Water	NWTPH-Gx	MSV/7094		
2512229021	DP05-2	ASTM D2974-87	PMST/2054		
2512229024	DP12-1.5	ASTM D2974-87	PMST/2054		
2512229025	DP13-2	ASTM D2974-87	PMST/2054		
2512229026	DP14-2.5	ASTM D2974-87	PMST/2054		

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square

Pace Project No.: 2512229

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<b>Lab ID</b>	<b>Sample ID</b>	<b>QC Batch Method</b>	<b>QC Batch</b>	<b>Analytical Method</b>	<b>Analytical Batch</b>
2512229027	DP15-1.5	ASTM D2974-87	PMST/2054		
2512229028	DP16-3	ASTM D2974-87	PMST/2054		
2512229029	DP17-1.5	ASTM D2974-87	PMST/2054		
2512229030	DP18-1.5	ASTM D2974-87	PMST/2054		
2512229031	DP19-2.5	ASTM D2974-87	PMST/2054		
2512229032	SOILDUP3	ASTM D2974-87	PMST/2054		

June 12, 2012

Joey Hickey  
GeoEngineers  
15055 SW Sequoia Parkway  
Suite 140  
Portland, OR 97224

RE: Project: Heritage Square - 2787-073-00  
Pace Project No.: 2512215

Dear Joey Hickey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 17, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Gossett

dan.gossett@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414  
A2LA Certification #: 2926.01  
Alaska Certification #: UST-078  
Alaska Certification #MN00064  
Arizona Certification #: AZ-0014  
Arkansas Certification #: 88-0680  
California Certification #: 01155CA  
EPA Region 8 Certification #: Pace  
Florida/NELAP Certification #: E87605  
Georgia Certification #: 959  
Idaho Certification #: MN00064  
Illinois Certification #: 200011  
Iowa Certification #: 368  
Kansas Certification #: E-10167  
Louisiana Certification #: 03086  
Louisiana Certification #: LA080009  
Maine Certification #: 2007029  
Maryland Certification #: 322  
Michigan DEQ Certification #: 9909  
Minnesota Certification #: 027-053-137

Mississippi Certification #: Pace  
Montana Certification #: MT CERT0092  
Nebraska Certification #: Pace  
Nevada Certification #: MN\_00064  
New Jersey Certification #: MN-002  
New Mexico Certification #: Pace  
New York Certification #: 11647  
North Carolina Certification #: 530  
North Dakota Certification #: R-036  
North Dakota Certification #: R-036A  
Ohio VAP Certification #: CL101  
Oklahoma Certification #: D9921  
Oklahoma Certification #: 9507  
Oregon Certification #: MN200001  
Pennsylvania Certification #: 68-00563  
Puerto Rico Certification  
Tennessee Certification #: 02818  
Texas Certification #: T104704192  
Washington Certification #: C754  
Wisconsin Certification #: 999407970

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### Washington Certification IDs

940 South Harney Street, Seattle, WA 98108  
Alaska CS Certification #: UST-025  
Arizona Certification #: AZ0770  
California Certification #: 01153CA

Florida/NELAP Certification #: E87617  
Oregon Certification #: WA200007  
Washington Certification #: C555

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## SAMPLE SUMMARY

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512215001	DP01-051512	Water	05/15/12 17:30	05/17/12 12:15
2512215002	DP03-051612	Water	05/16/12 10:00	05/17/12 12:15
2512215003	DP04-051612	Water	05/16/12 09:15	05/17/12 12:15
2512215004	DP06-051512	Water	05/15/12 12:30	05/17/12 12:15
2512215005	DP07S-051512	Water	05/15/12 14:15	05/17/12 12:15
2512215006	DP07D-051512	Water	05/15/12 16:00	05/17/12 12:15
2512215007	DP08-051512	Water	05/15/12 11:00	05/17/12 12:15
2512215008	DP09-051512	Water	05/15/12 15:00	05/17/12 12:15
2512215009	DUP1H2O-051512	Water	05/15/12 16:00	05/17/12 12:15
2512215010	TB1-051612	Water	05/16/12 11:00	05/17/12 12:15
2512215011	TB2-051612	Water	05/16/12 11:10	05/17/12 12:15
2512215012	TB3-051612	Water	05/16/12 11:15	05/17/12 12:15
2512215013	TB4-051612	Water	05/16/12 11:20	05/17/12 12:15
2512215014	TB5-051612	Water	05/16/12 11:25	05/17/12 12:15
2512215015	TB6-051612	Water	05/16/12 11:30	05/17/12 12:15
2512215016	TB7-051612	Water	05/16/12 11:40	05/17/12 12:15
2512215017	TB8-051612	Water	05/16/12 11:45	05/17/12 12:15
2512215018	TB9-051612	Water	05/16/12 11:50	05/17/12 12:15
2512215019	TB10-051612	Water	05/16/12 12:00	05/17/12 12:15
2512215020	DP01-1.5	Solid	05/15/12 17:25	05/17/12 12:15
2512215021	DP01-8	Solid	05/15/12 17:30	05/17/12 12:15
2512215022	DP01-14	Solid	05/16/12 17:35	05/17/12 12:15
2512215023	DP03-6	Solid	05/16/12 09:40	05/17/12 12:15
2512215024	DP03-10	Solid	05/16/12 09:45	05/17/12 12:15
2512215025	DP03-13	Solid	05/16/12 09:50	05/17/12 12:15
2512215026	DP04-3	Solid	05/16/12 08:55	05/17/12 12:15
2512215027	DP04-7	Solid	05/16/12 09:00	05/17/12 12:15
2512215028	DP04-13	Solid	05/16/12 09:05	05/17/12 12:15
2512215029	DP06-3	Solid	05/15/12 11:10	05/17/12 12:15
2512215030	DP06-10	Solid	05/15/12 11:15	05/17/12 12:15
2512215031	DP06-15	Solid	05/15/12 11:20	05/17/12 12:15
2512215032	DP06-20	Solid	05/15/12 11:40	05/17/12 12:15
2512215033	DP06-25	Solid	05/15/12 11:55	05/17/12 12:15
2512215034	DP06-30	Solid	05/15/12 12:00	05/17/12 12:15
2512215035	DP06-40	Solid	05/15/12 12:15	05/17/12 12:15
2512215036	DP07-2	Solid	05/15/12 14:00	05/17/12 12:15
2512215037	DP07-9	Solid	05/15/12 14:05	05/17/12 12:15

## REPORT OF LABORATORY ANALYSIS

## SAMPLE SUMMARY

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512215038	DP07-20	Solid	05/15/12 15:10	05/17/12 12:15
2512215039	DP08-5	Solid	05/15/12 10:20	05/17/12 12:15
2512215040	DP08-10	Solid	05/15/12 10:40	05/17/12 12:15
2512215041	DP08-15	Solid	05/15/12 10:50	05/17/12 12:15
2512215042	DP09-2	Solid	05/15/12 14:40	05/17/12 12:15
2512215043	DP09-12	Solid	05/15/12 14:45	05/17/12 12:15
2512215044	DUP1	Solid	05/15/12 16:05	05/17/12 12:15
2512215045	DUP2	Solid	05/15/12 17:00	05/17/12 12:15
2512215046	DP07-15	Solid	05/15/12 14:15	05/17/12 12:15

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512215001	DP01-051512	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215002	DP03-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215003	DP04-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215004	DP06-051512	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215005	DP07S-051512	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
EPA 8270 by SIM	MTJ	20	PASI-S		
EPA 5030B/8260	LNH	71	PASI-S		
2512215006	DP07D-051512	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
2512215007	DP08-051512	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
2512215008	DP09-051512	NWTPH-Gx	LPM	2	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215009	DUP1H2O-051512	EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RR1	7	PASI-M
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
		NWTPH-Gx	LPM	2	PASI-S
2512215010	TB1-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215011	TB2-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215012	TB3-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215013	TB4-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215014	TB5-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215015	TB6-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215016	TB7-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215017	TB8-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215018	TB9-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215019	TB10-051612	EPA 5030B/8260	LNH	71	PASI-S
2512215020	DP01-1.5	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
2512215024	DP03-10	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
2512215026	DP04-3	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512215029	DP06-3	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
2512215036	DP07-2	EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
		EPA 8260	LPM	73	PASI-S
2512215040	DP08-10	ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
2512215042	DP09-2	ASTM D2974-87	RAB	1	PASI-S
		EPA 8082	AY1	9	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7471	BGA	1	PASI-S
		EPA 8270 by SIM	MTJ	20	PASI-S
EPA 8260	LPM	73	PASI-S		
		ASTM D2974-87	RAB	1	PASI-S

### REPORT OF LABORATORY ANALYSIS

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP01-051512      Lab ID: 2512215001      Collected: 05/15/12 17:30      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.043	mg/L	0.086	0.043	1	05/24/12 11:45	05/24/12 22:55		
Motor Oil Range SG	<0.22	mg/L	0.43	0.22	1	05/24/12 11:45	05/24/12 22:55	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	107 %		50-150		1	05/24/12 11:45	05/24/12 22:55	630-02-4	
o-Terphenyl (S) SG	98 %		50-150		1	05/24/12 11:45	05/24/12 22:55	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	2.0	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 19:59	7440-38-2	B
Barium	35.8	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 19:59	7440-39-3	
Cadmium	0.053J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 19:59	7440-43-9	
Chromium	3.3	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 19:59	7440-47-3	
Lead	1.7	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 19:59	7439-92-1	
Selenium	0.30J	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 19:59	7782-49-2	
Silver	0.45J	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 19:59	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:23	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/21/12 19:43		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/21/12 19:43	460-00-4	

Sample: DP03-051612      Lab ID: 2512215002      Collected: 05/16/12 10:00      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.043	mg/L	0.085	0.043	1	05/24/12 11:45	05/24/12 23:29		
Motor Oil Range SG	<0.21	mg/L	0.43	0.21	1	05/24/12 11:45	05/24/12 23:29	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	93 %		50-150		1	05/24/12 11:45	05/24/12 23:29	630-02-4	
o-Terphenyl (S) SG	85 %		50-150		1	05/24/12 11:45	05/24/12 23:29	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	2.0	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:13	7440-38-2	B
Barium	44.3	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:13	7440-39-3	
Cadmium	0.042J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:13	7440-43-9	
Chromium	4.2	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:13	7440-47-3	
Lead	8.4	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:13	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:13	7782-49-2	
Silver	0.32J	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:13	7440-22-4	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP03-051612		Lab ID: 2512215002	Collected: 05/16/12 10:00	Received: 05/17/12 12:15	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:29	7439-97-6	
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/21/12 19:59		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		50-150		1		05/21/12 19:59	460-00-4	

Sample: DP04-051612		Lab ID: 2512215003	Collected: 05/16/12 09:15	Received: 05/17/12 12:15	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	<0.044	mg/L	0.089	0.044	1	05/24/12 11:45	05/24/12 23:46		
Motor Oil Range SG	<0.22	mg/L	0.44	0.22	1	05/24/12 11:45	05/24/12 23:46	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	99 %		50-150		1	05/24/12 11:45	05/24/12 23:46	630-02-4	
o-Terphenyl (S) SG	92 %		50-150		1	05/24/12 11:45	05/24/12 23:46	84-15-1	

<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020							
Arsenic	1.5	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:16	7440-38-2	B
Barium	34.1	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:16	7440-39-3	
Cadmium	0.036J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:16	7440-43-9	
Chromium	3.8	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:16	7440-47-3	
Lead	2.2	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:16	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:16	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:16	7440-22-4	
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:31	7439-97-6	
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/21/12 20:16		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110 %		50-150		1		05/21/12 20:16	460-00-4	

Sample: DP06-051512		Lab ID: 2512215004	Collected: 05/15/12 12:30	Received: 05/17/12 12:15	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510							
Diesel Range SG	<0.038	mg/L	0.076	0.038	1	05/24/12 11:45	05/25/12 00:38		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	05/24/12 11:45	05/25/12 00:38	64742-65-0	

Date: 06/12/2012 11:25 AM

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Sample Project No.: 2512215

**Sample: DP06-051512**      **Lab ID: 2512215004**      Collected: 05/15/12 12:30      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
<b>Surrogates</b>									
n-Octacosane (S) SG	70 %		50-150		1	05/24/12 11:45	05/25/12 00:38	630-02-4	
o-Terphenyl (S) SG	65 %		50-150		1	05/24/12 11:45	05/25/12 00:38	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	<b>44.0</b> ug/L		0.50	0.14	1	05/30/12 13:50	05/31/12 20:30	7440-38-2	B
Barium	<b>357</b> ug/L		0.30	0.15	1	05/30/12 13:50	05/31/12 20:30	7440-39-3	
Cadmium	<b>0.82</b> ug/L		0.080	0.028	1	05/30/12 13:50	05/31/12 20:30	7440-43-9	
Chromium	<b>85.4</b> ug/L		0.50	0.094	1	05/30/12 13:50	05/31/12 20:30	7440-47-3	
Lead	<b>62.7</b> ug/L		0.10	0.018	1	05/30/12 13:50	05/31/12 20:30	7439-92-1	
Selenium	<b>3.5</b> ug/L		0.50	0.22	1	05/30/12 13:50	05/31/12 20:30	7782-49-2	
Silver	<b>0.33J</b> ug/L		0.50	0.25	1	05/30/12 13:50	05/31/12 20:30	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<b>0.016J</b> ug/L		0.20	0.010	1	05/22/12 13:45	05/23/12 15:33	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<b>&lt;25.0</b> ug/L		50.0	25.0	1		05/22/12 01:07		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110 %		50-150		1		05/22/12 01:07	460-00-4	

**Sample: DP07S-051512**      **Lab ID: 2512215005**      Collected: 05/15/12 14:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	12674-11-2	
PCB-1221 (Aroclor 1221)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	11104-28-2	
PCB-1232 (Aroclor 1232)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	11141-16-5	
PCB-1242 (Aroclor 1242)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>&lt;0.50</b> ug/L		0.50	0.50	1	05/21/12 09:45	05/21/12 23:06	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	92 %		32-117		1	05/21/12 09:45	05/21/12 23:06	877-09-8	
Decachlorobiphenyl (S)	76 %		17-122		1	05/21/12 09:45	05/21/12 23:06	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<b>&lt;0.042</b> mg/L		0.084	0.042	1	05/24/12 11:45	05/25/12 00:55		
Motor Oil Range SG	<b>&lt;0.21</b> mg/L		0.42	0.21	1	05/24/12 11:45	05/25/12 00:55	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	95 %		50-150		1	05/24/12 11:45	05/25/12 00:55	630-02-4	
o-Terphenyl (S) SG	88 %		50-150		1	05/24/12 11:45	05/25/12 00:55	84-15-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DP07S-051512      **Lab ID:** 2512215005      Collected: 05/15/12 14:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	1.2	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:37	7440-38-2	B
Barium	42.1	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:37	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:37	7440-43-9	
Chromium	3.7	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:37	7440-47-3	
Lead	3.1	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:37	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:37	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:37	7440-22-4	
<b>6020 MET ICPMS, Dissolved</b>									
Analytical Method: EPA 6020									
Arsenic, Dissolved	0.27J	ug/L	0.50	0.14	1	05/30/12 13:27	05/31/12 14:07	7440-38-2	B
Barium, Dissolved	15.3	ug/L	0.30	0.15	1	05/30/12 13:27	05/31/12 14:07	7440-39-3	
Cadmium, Dissolved	<0.028	ug/L	0.080	0.028	1	05/30/12 13:27	05/31/12 14:07	7440-43-9	
Chromium, Dissolved	0.15J	ug/L	0.50	0.094	1	05/30/12 13:27	05/31/12 14:07	7440-47-3	
Lead, Dissolved	0.099J	ug/L	0.10	0.018	1	05/30/12 13:27	05/31/12 14:07	7439-92-1	B
Selenium, Dissolved	<0.22	ug/L	0.50	0.22	1	05/30/12 13:27	05/31/12 14:07	7782-49-2	
Silver, Dissolved	0.27J	ug/L	0.50	0.25	1	05/30/12 13:27	05/31/12 14:07	7440-22-4	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:36	7439-97-6	
<b>7470 Mercury, Dissolved</b>									
Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:02	7439-97-6	
<b>8270 MSSV PAH SIM</b>									
Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	83-32-9	
Acenaphthylene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	208-96-8	
Anthracene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	120-12-7	
Benzo(a)anthracene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	56-55-3	
Benzo(a)pyrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	50-32-8	
Benzo(b)fluoranthene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	205-99-2	
Benzo(g,h,i)perylene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	191-24-2	
Benzo(k)fluoranthene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	207-08-9	
Chrysene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	218-01-9	
Dibenz(a,h)anthracene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	53-70-3	
Fluoranthene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	206-44-0	
Fluorene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	193-39-5	
1-Methylnaphthalene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	90-12-0	
2-Methylnaphthalene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	91-57-6	
Naphthalene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	91-20-3	
Phenanthrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	85-01-8	
Pyrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 18:44	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	49	%	21-110		1	05/19/12 12:15	05/22/12 18:44	321-60-8	
Terphenyl-d14 (S)	71	%	32-123		1	05/19/12 12:15	05/22/12 18:44	1718-51-0	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP07S-051512      Lab ID: 2512215005      Collected: 05/15/12 14:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/23/12 18:47	67-64-1	
Benzene	0.21J	ug/L	1.0	0.10	1		05/23/12 18:47	71-43-2	B
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/23/12 18:47	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/23/12 18:47	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/23/12 18:47	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-35-4	
cis-1,2-Dichloroethene	0.17J	ug/L	1.0	0.10	1		05/23/12 18:47	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	10061-02-6	
Ethylbenzene	0.15J	ug/L	1.0	0.10	1		05/23/12 18:47	100-41-4	B
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/23/12 18:47	591-78-6	
Isopropylbenzene (Cumene)	0.88J	ug/L	1.0	0.10	1		05/23/12 18:47	98-82-8	B
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/23/12 18:47	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/23/12 18:47	108-10-1	



### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: DP07S-051512**      **Lab ID: 2512215005**      Collected: 05/15/12 14:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	91-20-3	
n-Propylbenzene	0.16J	ug/L	1.0	0.10	1		05/23/12 18:47	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	127-18-4	
Toluene	0.14J	ug/L	1.0	0.10	1		05/23/12 18:47	108-88-3	B
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/23/12 18:47	96-18-4	
1,2,4-Trimethylbenzene	0.22J	ug/L	1.0	0.10	1		05/23/12 18:47	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/23/12 18:47	1330-20-7	
m&p-Xylene	0.23J	ug/L	2.0	0.20	1		05/23/12 18:47	179601-23-1	B
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/23/12 18:47	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		79-121		1		05/23/12 18:47	460-00-4	
Dibromofluoromethane (S)	96 %		81-119		1		05/23/12 18:47	1868-53-7	
1,2-Dichloroethane-d4 (S)	93 %		72-127		1		05/23/12 18:47	17060-07-0	
Toluene-d8 (S)	103 %		77-120		1		05/23/12 18:47	2037-26-5	

**NWTPH-Gx MSV**      Analytical Method: NWTPH-Gx

Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/22/12 01:24		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	110 %		50-150		1		05/22/12 01:24	460-00-4	

**Sample: DP07D-051512**      **Lab ID: 2512215006**      Collected: 05/15/12 16:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.043	mg/L	0.087	0.043	1	05/24/12 11:45	05/25/12 01:12		
Motor Oil Range SG	<0.22	mg/L	0.43	0.22	1	05/24/12 11:45	05/25/12 01:12	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	96 %		50-150		1	05/24/12 11:45	05/25/12 01:12	630-02-4	
o-Terphenyl (S) SG	89 %		50-150		1	05/24/12 11:45	05/25/12 01:12	84-15-1	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP07D-051512      Lab ID: 2512215006      Collected: 05/15/12 16:00      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.81	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:40	7440-38-2	B
Barium	23.2	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:40	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:40	7440-43-9	
Chromium	0.24J	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:40	7440-47-3	
Lead	0.62	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:40	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:40	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:40	7440-22-4	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020									
Arsenic, Dissolved	17.3	ug/L	0.50	0.14	1	05/30/12 13:27	05/31/12 14:10	7440-38-2	B
Barium, Dissolved	43.9	ug/L	0.30	0.15	1	05/30/12 13:27	05/31/12 14:10	7440-39-3	
Cadmium, Dissolved	<0.028	ug/L	0.080	0.028	1	05/30/12 13:27	05/31/12 14:10	7440-43-9	
Chromium, Dissolved	0.11J	ug/L	0.50	0.094	1	05/30/12 13:27	05/31/12 14:10	7440-47-3	
Lead, Dissolved	0.12	ug/L	0.10	0.018	1	05/30/12 13:27	05/31/12 14:10	7439-92-1	B
Selenium, Dissolved	<0.22	ug/L	0.50	0.22	1	05/30/12 13:27	05/31/12 14:10	7782-49-2	
Silver, Dissolved	<0.25	ug/L	0.50	0.25	1	05/30/12 13:27	05/31/12 14:10	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	0.024J	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:38	7439-97-6	
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:08	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/22/12 01:41		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	111	%	50-150		1		05/22/12 01:41	460-00-4	

Sample: DP08-051512      Lab ID: 2512215007      Collected: 05/15/12 11:00      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.040	mg/L	0.079	0.040	1	05/24/12 11:45	05/25/12 01:29		
Motor Oil Range SG	<0.20	mg/L	0.40	0.20	1	05/24/12 11:45	05/25/12 01:29	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	69	%	50-150		1	05/24/12 11:45	05/25/12 01:29	630-02-4	
o-Terphenyl (S) SG	64	%	50-150		1	05/24/12 11:45	05/25/12 01:29	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.81	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:43	7440-38-2	B
Barium	37.3	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:43	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:43	7440-43-9	
Chromium	2.3	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:43	7440-47-3	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP08-051512      Lab ID: 2512215007      Collected: 05/15/12 11:00      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Lead	1.1	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:43	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:43	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:43	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:46	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/22/12 01:58		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	111	%	50-150		1		05/22/12 01:58	460-00-4	

Sample: DP09-051512      Lab ID: 2512215008      Collected: 05/15/12 15:00      Received: 05/17/12 12:15      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.043	mg/L	0.087	0.043	1	05/24/12 11:45	05/25/12 01:46		
Motor Oil Range SG	<0.22	mg/L	0.43	0.22	1	05/24/12 11:45	05/25/12 01:46	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	108	%	50-150		1	05/24/12 11:45	05/25/12 01:46	630-02-4	
o-Terphenyl (S) SG	99	%	50-150		1	05/24/12 11:45	05/25/12 01:46	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	1.1	ug/L	0.50	0.14	1	05/30/12 13:50	05/31/12 20:47	7440-38-2	B
Barium	37.9	ug/L	0.30	0.15	1	05/30/12 13:50	05/31/12 20:47	7440-39-3	
Cadmium	0.038J	ug/L	0.080	0.028	1	05/30/12 13:50	05/31/12 20:47	7440-43-9	
Chromium	2.6	ug/L	0.50	0.094	1	05/30/12 13:50	05/31/12 20:47	7440-47-3	
Lead	4.6	ug/L	0.10	0.018	1	05/30/12 13:50	05/31/12 20:47	7439-92-1	
Selenium	<0.22	ug/L	0.50	0.22	1	05/30/12 13:50	05/31/12 20:47	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	05/30/12 13:50	05/31/12 20:47	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:48	7439-97-6	
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/23/12 19:38	67-64-1	
Benzene	0.18J	ug/L	1.0	0.10	1		05/23/12 19:38	71-43-2	B
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/23/12 19:38	78-93-3	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP09-051512 Lab ID: 2512215008 Collected: 05/15/12 15:00 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/23/12 19:38	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/23/12 19:38	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	10061-02-6	
Ethylbenzene	0.14J	ug/L	1.0	0.10	1		05/23/12 19:38	100-41-4	B
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/23/12 19:38	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/23/12 19:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/23/12 19:38	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	91-20-3	
n-Propylbenzene	0.10J	ug/L	1.0	0.10	1		05/23/12 19:38	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	127-18-4	
Toluene	0.12J	ug/L	1.0	0.10	1		05/23/12 19:38	108-88-3	B

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: DP09-051512**      **Lab ID: 2512215008**      Collected: 05/15/12 15:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/23/12 19:38	96-18-4	
1,2,4-Trimethylbenzene	0.19J	ug/L	1.0	0.10	1		05/23/12 19:38	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/23/12 19:38	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/23/12 19:38	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/23/12 19:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		79-121		1		05/23/12 19:38	460-00-4	
Dibromofluoromethane (S)	94 %		81-119		1		05/23/12 19:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	92 %		72-127		1		05/23/12 19:38	17060-07-0	
Toluene-d8 (S)	105 %		77-120		1		05/23/12 19:38	2037-26-5	

<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/22/12 02:15		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		50-150		1		05/22/12 02:15	460-00-4	

**Sample: DUP1H2O-051512**      **Lab ID: 2512215009**      Collected: 05/15/12 16:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB</b> Analytical Method: EPA 8082      Preparation Method: EPA 3510									
PCB-1016 (Aroclor 1016)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	12674-11-2	
PCB-1221 (Aroclor 1221)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	11104-28-2	
PCB-1232 (Aroclor 1232)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	11141-16-5	
PCB-1242 (Aroclor 1242)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	53469-21-9	
PCB-1248 (Aroclor 1248)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	12672-29-6	
PCB-1254 (Aroclor 1254)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	11097-69-1	
PCB-1260 (Aroclor 1260)	<0.53	ug/L	0.53	0.53	1	05/21/12 09:45	05/22/12 01:02	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	85 %		32-117		1	05/21/12 09:45	05/22/12 01:02	877-09-8	
Decachlorobiphenyl (S)	80 %		17-122		1	05/21/12 09:45	05/22/12 01:02	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.042	mg/L	0.083	0.042	1	05/24/12 11:45	05/25/12 02:04		
Motor Oil Range SG	<0.21	mg/L	0.42	0.21	1	05/24/12 11:45	05/25/12 02:04	64742-65-0	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DUP1H2O-051512      **Lab ID:** 2512215009      Collected: 05/15/12 16:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
<i>Surrogates</i>									
n-Octacosane (S) SG	101 %		50-150		1	05/24/12 11:45	05/25/12 02:04	630-02-4	
o-Terphenyl (S) SG	94 %		50-150		1	05/24/12 11:45	05/25/12 02:04	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	1.6 ug/L		0.50	0.14	1	05/30/12 13:50	05/31/12 20:50	7440-38-2	B
Barium	56.6 ug/L		0.30	0.15	1	05/30/12 13:50	05/31/12 20:50	7440-39-3	
Cadmium	0.028J ug/L		0.080	0.028	1	05/30/12 13:50	05/31/12 20:50	7440-43-9	
Chromium	6.0 ug/L		0.50	0.094	1	05/30/12 13:50	05/31/12 20:50	7440-47-3	
Lead	3.6 ug/L		0.10	0.018	1	05/30/12 13:50	05/31/12 20:50	7439-92-1	
Selenium	<0.22 ug/L		0.50	0.22	1	05/30/12 13:50	05/31/12 20:50	7782-49-2	
Silver	<0.25 ug/L		0.50	0.25	1	05/30/12 13:50	05/31/12 20:50	7440-22-4	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020									
Arsenic, Dissolved	0.34J ug/L		0.50	0.14	1	05/30/12 13:27	05/31/12 14:14	7440-38-2	B
Barium, Dissolved	15.7 ug/L		0.30	0.15	1	05/30/12 13:27	05/31/12 14:14	7440-39-3	
Cadmium, Dissolved	0.071J ug/L		0.080	0.028	1	05/30/12 13:27	05/31/12 14:14	7440-43-9	
Chromium, Dissolved	0.30J ug/L		0.50	0.094	1	05/30/12 13:27	05/31/12 14:14	7440-47-3	
Lead, Dissolved	0.22 ug/L		0.10	0.018	1	05/30/12 13:27	05/31/12 14:14	7439-92-1	B
Selenium, Dissolved	<0.22 ug/L		0.50	0.22	1	05/30/12 13:27	05/31/12 14:14	7782-49-2	
Silver, Dissolved	<0.25 ug/L		0.50	0.25	1	05/30/12 13:27	05/31/12 14:14	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010 ug/L		0.20	0.010	1	05/22/12 13:45	05/23/12 15:50	7439-97-6	
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<0.010 ug/L		0.20	0.010	1	05/22/12 13:45	05/23/12 15:11	7439-97-6	
<b>8270 MSSV PAH SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510									
Acenaphthene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	83-32-9	
Acenaphthylene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	208-96-8	
Anthracene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	120-12-7	
Benzo(a)anthracene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	56-55-3	
Benzo(a)pyrene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	50-32-8	
Benzo(b)fluoranthene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	205-99-2	
Benzo(g,h,i)perylene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	191-24-2	
Benzo(k)fluoranthene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	207-08-9	
Chrysene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	218-01-9	
Dibenz(a,h)anthracene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	53-70-3	
Fluoranthene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	206-44-0	
Fluorene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	193-39-5	
1-Methylnaphthalene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	90-12-0	
2-Methylnaphthalene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	91-57-6	
Naphthalene	<0.052 ug/L		0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	91-20-3	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DUP1H2O-051512      **Lab ID:** 2512215009      Collected: 05/15/12 16:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8270 MSSV PAH SIM</b>		Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3510							
Phenanthrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	85-01-8	
Pyrene	<0.052	ug/L	0.10	0.052	1	05/19/12 12:15	05/22/12 19:53	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	59 %		21-110		1	05/19/12 12:15	05/22/12 19:53	321-60-8	
Terphenyl-d14 (S)	78 %		32-123		1	05/19/12 12:15	05/22/12 19:53	1718-51-0	
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/25/12 18:38	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/25/12 18:38	78-93-3	
n-Butylbenzene	0.15J	ug/L	1.0	0.10	1		05/25/12 18:38	104-51-8	B
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	98-06-6	
Carbon disulfide	0.14J	ug/L	1.0	0.10	1		05/25/12 18:38	75-15-0	B
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/25/12 18:38	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/25/12 18:38	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-35-4	
cis-1,2-Dichloroethene	0.17J	ug/L	1.0	0.10	1		05/25/12 18:38	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	10061-02-6	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DUP1H2O-051512 Lab ID: 2512215009 Collected: 05/15/12 16:00 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/25/12 18:38	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/25/12 18:38	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/25/12 18:38	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/25/12 18:38	96-18-4	
1,2,4-Trimethylbenzene	0.12J	ug/L	1.0	0.10	1		05/25/12 18:38	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	108-67-8	
Vinyl chloride	0.40J	ug/L	1.0	0.10	1		05/25/12 18:38	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/25/12 18:38	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/25/12 18:38	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/25/12 18:38	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		79-121		1		05/25/12 18:38	460-00-4	
Dibromofluoromethane (S)	99 %		81-119		1		05/25/12 18:38	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		72-127		1		05/25/12 18:38	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/25/12 18:38	2037-26-5	
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx							
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/22/12 02:32		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		50-150		1		05/22/12 02:32	460-00-4	



## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** TB1-051612      **Lab ID:** 2512215010      Collected: 05/16/12 11:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 16:54	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 16:54	78-93-3	
n-Butylbenzene	0.33J	ug/L	1.0	0.10	1		05/26/12 16:54	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	74-87-3	
2-Chlorotoluene	0.25J	ug/L	1.0	0.10	1		05/26/12 16:54	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 16:54	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	541-73-1	
1,4-Dichlorobenzene	0.10J	ug/L	1.0	0.10	1		05/26/12 16:54	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 16:54	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	10061-02-6	
Ethylbenzene	0.11J	ug/L	1.0	0.10	1		05/26/12 16:54	100-41-4	
Hexachloro-1,3-butadiene	0.23J	ug/L	1.0	0.10	1		05/26/12 16:54	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 16:54	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	98-82-8	
p-Isopropyltoluene	0.15J	ug/L	1.0	0.10	1		05/26/12 16:54	99-87-6	
Methylene chloride	1.3J	ug/L	5.0	0.50	1		05/26/12 16:54	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 16:54	108-10-1	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB1-051612** Lab ID: **2512215010** Collected: 05/16/12 11:00 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	91-20-3	
n-Propylbenzene	<b>0.16J</b>	ug/L	1.0	0.10	1		05/26/12 16:54	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	127-18-4	
Toluene	<b>0.16J</b>	ug/L	1.0	0.10	1		05/26/12 16:54	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 16:54	96-18-4	
1,2,4-Trimethylbenzene	<b>0.44J</b>	ug/L	1.0	0.10	1		05/26/12 16:54	95-63-6	B
1,3,5-Trimethylbenzene	<b>0.13J</b>	ug/L	1.0	0.10	1		05/26/12 16:54	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 16:54	75-01-4	
Xylene (Total)	<b>0.55J</b>	ug/L	3.0	0.30	1		05/26/12 16:54	1330-20-7	
m&p-Xylene	<b>0.40J</b>	ug/L	2.0	0.20	1		05/26/12 16:54	179601-23-1	
o-Xylene	<b>0.14J</b>	ug/L	1.0	0.10	1		05/26/12 16:54	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104 %		79-121		1		05/26/12 16:54	460-00-4	
Dibromofluoromethane (S)	101 %		81-119		1		05/26/12 16:54	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		72-127		1		05/26/12 16:54	17060-07-0	
Toluene-d8 (S)	103 %		77-120		1		05/26/12 16:54	2037-26-5	

Sample: **TB2-051612** Lab ID: **2512215011** Collected: 05/16/12 11:10 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:10	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:10	78-93-3	
n-Butylbenzene	<b>0.15J</b>	ug/L	1.0	0.10	1		05/26/12 17:10	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-15-0	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB2-051612**      **Lab ID: 2512215011**      Collected: 05/16/12 11:10      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 17:10	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 17:10	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:10	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 17:10	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:10	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	79-00-5	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB2-051612**      **Lab ID: 2512215011**      Collected: 05/16/12 11:10      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 17:10	96-18-4	
1,2,4-Trimethylbenzene	0.20J	ug/L	1.0	0.10	1		05/26/12 17:10	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 17:10	1330-20-7	
m&p-Xylene	0.24J	ug/L	2.0	0.20	1		05/26/12 17:10	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:10	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104 %		79-121		1		05/26/12 17:10	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 17:10	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/26/12 17:10	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/26/12 17:10	2037-26-5	

**Sample: TB3-051612**      **Lab ID: 2512215012**      Collected: 05/16/12 11:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:27	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:27	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 17:27	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	95-50-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB3-051612** Lab ID: **2512215012** Collected: 05/16/12 11:15 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 17:27	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:27	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 17:27	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:27	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 17:27	96-18-4	
1,2,4-Trimethylbenzene	0.12J	ug/L	1.0	0.10	1		05/26/12 17:27	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 17:27	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 17:27	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:27	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		79-121		1		05/26/12 17:27	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 17:27	1868-53-7	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB3-051612**      **Lab ID: 2512215012**      Collected: 05/16/12 11:15      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	97 %		72-127		1		05/26/12 17:27	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/26/12 17:27	2037-26-5	

**Sample: TB4-051612**      **Lab ID: 2512215013**      Collected: 05/16/12 11:20      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:44	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:44	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 17:44	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 17:44	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	142-28-9	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB4-051612**      **Lab ID: 2512215013**      Collected: 05/16/12 11:20      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 17:44	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 17:44	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 17:44	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 17:44	96-18-4	
1,2,4-Trimethylbenzene	<b>0.11J</b>	ug/L	1.0	0.10	1		05/26/12 17:44	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 17:44	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 17:44	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 17:44	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/26/12 17:44	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/26/12 17:44	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/26/12 17:44	17060-07-0	
Toluene-d8 (S)	105 %		77-120		1		05/26/12 17:44	2037-26-5	

**Sample: TB5-051612**      **Lab ID: 2512215014**      Collected: 05/16/12 11:25      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:01	67-64-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB5-051612**      **Lab ID: 2512215014**      Collected: 05/16/12 11:25      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:01	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 18:01	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 18:01	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:01	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 18:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:01	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	1634-04-4	



## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB5-051612**      **Lab ID: 2512215014**      Collected: 05/16/12 11:25      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 18:01	96-18-4	
1,2,4-Trimethylbenzene	0.10J	ug/L	1.0	0.10	1		05/26/12 18:01	95-63-6	B
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 18:01	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 18:01	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:01	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	108 %		79-121		1		05/26/12 18:01	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 18:01	1868-53-7	
1,2-Dichloroethane-d4 (S)	96 %		72-127		1		05/26/12 18:01	17060-07-0	
Toluene-d8 (S)	103 %		77-120		1		05/26/12 18:01	2037-26-5	

**Sample: TB6-051612**      **Lab ID: 2512215015**      Collected: 05/16/12 11:30      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:18	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:18	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	56-23-5	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB6-051612** Lab ID: **2512215015** Collected: 05/16/12 11:30 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 18:18	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 18:18	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:18	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 18:18	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:18	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	79-01-6	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB6-051612**      **Lab ID: 2512215015**      Collected: 05/16/12 11:30      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 18:18	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 18:18	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 18:18	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:18	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/26/12 18:18	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 18:18	1868-53-7	
1,2-Dichloroethane-d4 (S)	98 %		72-127		1		05/26/12 18:18	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/26/12 18:18	2037-26-5	

**Sample: TB7-051612**      **Lab ID: 2512215016**      Collected: 05/16/12 11:40      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:35	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:35	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 18:35	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	541-73-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB7-051612** Lab ID: **2512215016** Collected: 05/16/12 11:40 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 18:35	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:35	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:35	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 18:35	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 18:35	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 18:35	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:35	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/26/12 18:35	460-00-4	
Dibromofluoromethane (S)	103 %		81-119		1		05/26/12 18:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	103 %		72-127		1		05/26/12 18:35	17060-07-0	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB7-051612**      **Lab ID: 2512215016**      Collected: 05/16/12 11:40      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
<b>Surrogates</b>									
Toluene-d8 (S)	100 %		77-120		1		05/26/12 18:35	2037-26-5	

**Sample: TB8-051612**      **Lab ID: 2512215017**      Collected: 05/16/12 11:45      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:51	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:51	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 18:51	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 18:51	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	594-20-7	

### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB8-051612** Lab ID: **2512215017** Collected: 05/16/12 11:45 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 18:51	98-82-8	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	99-87-6	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 18:51	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 18:51	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 18:51	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 18:51	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 18:51	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 18:51	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		79-121		1		05/26/12 18:51	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/26/12 18:51	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		72-127		1		05/26/12 18:51	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/26/12 18:51	2037-26-5	

Sample: **TB9-051612** Lab ID: **2512215018** Collected: 05/16/12 11:50 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:08	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	71-43-2	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: **TB9-051612** Lab ID: **2512215018** Collected: 05/16/12 11:50 Received: 05/17/12 12:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:08	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 19:08	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 19:08	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:08	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 19:08	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:08	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	91-20-3	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB9-051612**      **Lab ID: 2512215018**      Collected: 05/16/12 11:50      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 19:08	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 19:08	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 19:08	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:08	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/26/12 19:08	460-00-4	
Dibromofluoromethane (S)	101 %		81-119		1		05/26/12 19:08	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/26/12 19:08	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/26/12 19:08	2037-26-5	

**Sample: TB10-051612**      **Lab ID: 2512215019**      Collected: 05/16/12 12:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:25	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:25	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	108-90-7	



### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: TB10-051612**      **Lab ID: 2512215019**      Collected: 05/16/12 12:00      Received: 05/17/12 12:15      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 19:25	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 19:25	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:25	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/26/12 19:25	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:25	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-69-4	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Sample Project No.: 2512215

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: TB10-051612</b> <b>Lab ID: 2512215019</b> Collected: 05/16/12 12:00      Received: 05/17/12 12:15      Matrix: Water									
Analytical Method: EPA 5030B/8260									
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 19:25	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 19:25	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 19:25	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:25	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	79-121		1		05/26/12 19:25	460-00-4	
Dibromofluoromethane (S)	100	%	81-119		1		05/26/12 19:25	1868-53-7	
1,2-Dichloroethane-d4 (S)	101	%	72-127		1		05/26/12 19:25	17060-07-0	
Toluene-d8 (S)	102	%	77-120		1		05/26/12 19:25	2037-26-5	

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: DP01-1.5</b> <b>Lab ID: 2512215020</b> Collected: 05/15/12 17:25      Received: 05/17/12 12:15      Matrix: Solid									
<b>Results reported on a "dry-weight" basis</b>									
Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<8.7	mg/kg	17.5	8.7	1	05/21/12 09:35	05/22/12 03:46		
Motor Oil Range SG	<35.0	mg/kg	69.9	35.0	1	05/21/12 09:35	05/22/12 03:46	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	98	%	50-150		1	05/21/12 09:35	05/22/12 03:46	630-02-4	
o-Terphenyl (S) SG	102	%	50-150		1	05/21/12 09:35	05/22/12 03:46	84-15-1	
Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<2.5	mg/kg	4.9	2.5	1	05/24/12 18:47	05/25/12 14:23		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	108	%	50-150		1	05/24/12 18:47	05/25/12 14:23	98-08-8	
4-Bromofluorobenzene (S)	81	%	50-150		1	05/24/12 18:47	05/25/12 14:23	460-00-4	

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	2.1	mg/kg	0.48	0.18	20	05/31/12 11:04	06/07/12 18:22	7440-38-2	M6
Barium	19.7	mg/kg	0.29	0.064	20	05/31/12 11:04	06/07/12 18:22	7440-39-3	M6
Cadmium	<0.023	mg/kg	0.077	0.023	20	05/31/12 11:04	06/07/12 18:22	7440-43-9	M6
Chromium	15.6	mg/kg	0.48	0.17	20	05/31/12 11:04	06/07/12 18:22	7440-47-3	M6
Lead	2.5	mg/kg	0.097	0.029	20	05/31/12 11:04	06/07/12 18:22	7439-92-1	B,M6
Selenium	0.43J	mg/kg	0.48	0.19	20	05/31/12 11:04	06/07/12 18:22	7782-49-2	M6
Silver	<0.18	mg/kg	0.48	0.18	20	05/31/12 11:04	06/07/12 18:22	7440-22-4	M6
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	<0.0024	mg/kg	0.11	0.0024	1	05/22/12 15:10	05/23/12 17:02	7439-97-6	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Lab Project No.: 2512215

**Sample: DP01-1.5**      **Lab ID: 2512215020**      Collected: 05/15/12 17:25      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	11.5 %		0.10	0.10	1		05/22/12 17:20		

**Sample: DP03-10**      **Lab ID: 2512215024**      Collected: 05/16/12 09:45      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<8.5 mg/kg		17.0	8.5	1	05/21/12 09:35	05/22/12 04:30		
Motor Oil Range SG	<34.1 mg/kg		68.1	34.1	1	05/21/12 09:35	05/22/12 04:30	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	97 %		50-150		1	05/21/12 09:35	05/22/12 04:30	630-02-4	
o-Terphenyl (S) SG	102 %		50-150		1	05/21/12 09:35	05/22/12 04:30	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx

Gasoline Range Organics	<3.3 mg/kg		6.5	3.3	1	05/24/12 18:47	05/25/12 15:10		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	111 %		50-150		1	05/24/12 18:47	05/25/12 15:10	98-08-8	
4-Bromofluorobenzene (S)	84 %		50-150		1	05/24/12 18:47	05/25/12 15:10	460-00-4	

**6020 MET ICPMS**      Analytical Method: EPA 6020

Arsenic	1.8 mg/kg		0.43	0.16	20	05/31/12 11:04	06/08/12 09:02	7440-38-2	
Barium	47.5 mg/kg		0.26	0.057	20	05/31/12 11:04	06/08/12 09:02	7440-39-3	
Cadmium	0.040J mg/kg		0.069	0.021	20	05/31/12 11:04	06/08/12 09:02	7440-43-9	
Chromium	9.4 mg/kg		0.43	0.15	20	05/31/12 11:04	06/08/12 09:02	7440-47-3	
Lead	13.5 mg/kg		0.086	0.026	20	05/31/12 11:04	06/08/12 09:02	7439-92-1	B
Selenium	0.34J mg/kg		0.43	0.17	20	05/31/12 11:04	06/08/12 09:02	7782-49-2	
Silver	0.27J mg/kg		0.43	0.16	20	05/31/12 11:04	06/08/12 09:02	7440-22-4	B

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Mercury	<0.0021 mg/kg		0.098	0.0021	1	05/22/12 15:10	05/23/12 17:09	7439-97-6	
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**Percent Moisture**      Analytical Method: ASTM D2974-87

Percent Moisture	10.0 %		0.10	0.10	1		05/22/12 17:24		
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### ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Sample Project No.: 2512215

Sample: DP04-3 Lab ID: 2512215026 Collected: 05/16/12 08:55 Received: 05/17/12 12:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	<10.1	mg/kg	20.3	10.1	1	05/21/12 09:35	05/22/12 04:52		
Motor Oil Range SG	<40.5	mg/kg	81.0	40.5	1	05/21/12 09:35	05/22/12 04:52	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	97	%	50-150		1	05/21/12 09:35	05/22/12 04:52	630-02-4	
o-Terphenyl (S) SG	102	%	50-150		1	05/21/12 09:35	05/22/12 04:52	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<5.4	mg/kg	10.8	5.4	1	05/24/12 18:47	05/25/12 15:34		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	106	%	50-150		1	05/24/12 18:47	05/25/12 15:34	98-08-8	
4-Bromofluorobenzene (S)	80	%	50-150		1	05/24/12 18:47	05/25/12 15:34	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	3.0	mg/kg	0.50	0.19	20	05/31/12 11:04	06/08/12 09:10	7440-38-2	
Barium	43.3	mg/kg	0.30	0.066	20	05/31/12 11:04	06/08/12 09:10	7440-39-3	
Cadmium	0.039J	mg/kg	0.080	0.024	20	05/31/12 11:04	06/08/12 09:10	7440-43-9	
Chromium	10.8	mg/kg	0.50	0.17	20	05/31/12 11:04	06/08/12 09:10	7440-47-3	
Lead	94.1	mg/kg	0.10	0.030	20	05/31/12 11:04	06/08/12 09:10	7439-92-1	B
Selenium	0.29J	mg/kg	0.50	0.20	20	05/31/12 11:04	06/08/12 09:10	7782-49-2	
Silver	<0.19	mg/kg	0.50	0.19	20	05/31/12 11:04	06/08/12 09:10	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	<0.0020	mg/kg	0.095	0.0020	1	05/22/12 15:10	05/23/12 17:11	7439-97-6	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	23.0	%	0.10	0.10	1		05/22/12 17:25		

Sample: DP06-3 Lab ID: 2512215029 Collected: 05/15/12 11:10 Received: 05/17/12 12:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	10J	mg/kg	16.9	8.5	1	05/21/12 09:35	05/24/12 20:45		
Motor Oil Range SG	<33.8	mg/kg	67.6	33.8	1	05/21/12 09:35	05/24/12 20:45	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	107	%	50-150		1	05/21/12 09:35	05/24/12 20:45	630-02-4	
o-Terphenyl (S) SG	107	%	50-150		1	05/21/12 09:35	05/24/12 20:45	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.3	mg/kg	6.7	3.3	1	05/24/12 18:47	05/25/12 15:57		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	110	%	50-150		1	05/24/12 18:47	05/25/12 15:57	98-08-8	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: DP06-3**      **Lab ID: 2512215029**      Collected: 05/15/12 11:10      Received: 05/17/12 12:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	85 %		50-150		1	05/24/12 18:47	05/25/12 15:57	460-00-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	3.2 mg/kg		0.42	0.16	20	05/31/12 11:04	06/08/12 09:19	7440-38-2	
Barium	65.5 mg/kg		0.25	0.055	20	05/31/12 11:04	06/08/12 09:19	7440-39-3	
Cadmium	1.6 mg/kg		0.067	0.020	20	05/31/12 11:04	06/08/12 09:19	7440-43-9	
Chromium	14.8 mg/kg		0.42	0.15	20	05/31/12 11:04	06/08/12 09:19	7440-47-3	
Lead	27.1 mg/kg		0.084	0.025	20	05/31/12 11:04	06/08/12 09:19	7439-92-1	B
Selenium	0.48 mg/kg		0.42	0.17	20	05/31/12 11:04	06/08/12 09:19	7782-49-2	
Silver	<0.16 mg/kg		0.42	0.16	20	05/31/12 11:04	06/08/12 09:19	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	<0.0019 mg/kg		0.090	0.0019	1	05/22/12 15:10	05/23/12 17:14	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	7.6 %		0.10	0.10	1		05/22/12 17:29		

**Sample: DP07-2**      **Lab ID: 2512215036**      Collected: 05/15/12 14:00      Received: 05/17/12 12:15      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	12674-11-2	
PCB-1221 (Aroclor 1221)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	11104-28-2	
PCB-1232 (Aroclor 1232)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	11141-16-5	
PCB-1242 (Aroclor 1242)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	53469-21-9	
PCB-1248 (Aroclor 1248)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	12672-29-6	
PCB-1254 (Aroclor 1254)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	11097-69-1	
PCB-1260 (Aroclor 1260)	<19.5 ug/kg		19.5	19.5	1	05/21/12 12:35	05/24/12 19:07	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	96 %		30-134		1	05/21/12 12:35	05/24/12 19:07	877-09-8	
Decachlorobiphenyl (S)	84 %		20-139		1	05/21/12 12:35	05/24/12 19:07	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	27.5 mg/kg		17.9	8.9	1	05/21/12 09:35	05/22/12 05:35		
Motor Oil Range SG	163 mg/kg		71.6	35.8	1	05/21/12 09:35	05/22/12 05:35	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	93 %		50-150		1	05/21/12 09:35	05/22/12 05:35	630-02-4	
o-Terphenyl (S) SG	99 %		50-150		1	05/21/12 09:35	05/22/12 05:35	84-15-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DP07-2      **Lab ID:** 2512215036      Collected: 05/15/12 14:00      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.4	mg/kg	6.9	3.4	1	05/24/12 18:47	05/25/12 16:20		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	101	%	50-150		1	05/24/12 18:47	05/25/12 16:20	98-08-8	
4-Bromofluorobenzene (S)	76	%	50-150		1	05/24/12 18:47	05/25/12 16:20	460-00-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	4.4	mg/kg	0.48	0.18	20	05/31/12 11:04	06/08/12 09:24	7440-38-2	
Barium	174	mg/kg	0.29	0.063	20	05/31/12 11:04	06/08/12 09:24	7440-39-3	
Cadmium	0.51	mg/kg	0.076	0.023	20	05/31/12 11:04	06/08/12 09:24	7440-43-9	
Chromium	17.0	mg/kg	0.48	0.17	20	05/31/12 11:04	06/08/12 09:24	7440-47-3	
Lead	183	mg/kg	0.095	0.029	20	05/31/12 11:04	06/08/12 09:24	7439-92-1	B
Selenium	0.59	mg/kg	0.48	0.19	20	05/31/12 11:04	06/08/12 09:24	7782-49-2	
Silver	<0.18	mg/kg	0.48	0.18	20	05/31/12 11:04	06/08/12 09:24	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	<0.0023	mg/kg	0.11	0.0023	1	05/22/12 15:10	05/23/12 17:16	7439-97-6	
<b>8270 MSSV PAH by SIM</b> Analytical Method: EPA 8270 by SIM      Preparation Method: EPA 3546									
Acenaphthene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	83-32-9	
Acenaphthylene	13.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	208-96-8	
Anthracene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	120-12-7	
Benzo(a)anthracene	37.9	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	56-55-3	
Benzo(a)pyrene	33.5	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	50-32-8	
Benzo(b)fluoranthene	49.0	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	205-99-2	
Benzo(g,h,i)perylene	22.1	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	191-24-2	
Benzo(k)fluoranthene	17.2	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	207-08-9	
Chrysene	27.3	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	218-01-9	
Dibenz(a,h)anthracene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	53-70-3	
Fluoranthene	49.3	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	206-44-0	
Fluorene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	86-73-7	
Indeno(1,2,3-cd)pyrene	20.4	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	193-39-5	
1-Methylnaphthalene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	90-12-0	
2-Methylnaphthalene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	91-57-6	
Naphthalene	<7.7	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	91-20-3	
Phenanthrene	15.0	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	85-01-8	
Pyrene	53.1	ug/kg	7.7	7.7	1	05/21/12 12:25	05/24/12 00:46	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	77	%	27-118		1	05/21/12 12:25	05/24/12 00:46	321-60-8	
Terphenyl-d14 (S)	82	%	28-125		1	05/21/12 12:25	05/24/12 00:46	1718-51-0	
<b>8260/5035A Volatile Organics</b> Analytical Method: EPA 8260									
Acetone	<5.5	ug/kg	11.1	5.5	1		05/25/12 12:40	67-64-1	
tert-Amylmethyl ether	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	994-05-8	
Benzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	71-43-2	
Bromobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	108-86-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DP07-2      **Lab ID:** 2512215036      Collected: 05/15/12 14:00      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Bromochloromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	74-97-5	
Bromodichloromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-27-4	
Bromoform	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-25-2	
Bromomethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	74-83-9	
2-Butanone (MEK)	<5.5	ug/kg	11.1	5.5	1		05/25/12 12:40	78-93-3	
n-Butylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	104-51-8	
sec-Butylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	135-98-8	
tert-Butylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	98-06-6	
Carbon disulfide	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-15-0	
Carbon tetrachloride	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	56-23-5	
Chlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	108-90-7	
Chloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-00-3	
Chloroform	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	67-66-3	
Chloromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	74-87-3	
2-Chlorotoluene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	95-49-8	
4-Chlorotoluene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	106-43-4	
1,2-Dibromo-3-chloropropane	<2.8	ug/kg	5.5	2.8	1		05/25/12 12:40	96-12-8	
Dibromochloromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	124-48-1	
1,2-Dibromoethane (EDB)	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	106-93-4	
Dibromomethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	74-95-3	
1,2-Dichlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	95-50-1	
1,3-Dichlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	541-73-1	
1,4-Dichlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	106-46-7	
Dichlorodifluoromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-71-8	
1,1-Dichloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-34-3	
1,2-Dichloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	107-06-2	
1,2-Dichloroethene (Total)	<3.3	ug/kg	6.6	3.3	1		05/25/12 12:40	540-59-0	
1,1-Dichloroethene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-35-4	
cis-1,2-Dichloroethene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	156-59-2	
trans-1,2-Dichloroethene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	156-60-5	
1,2-Dichloropropane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	78-87-5	
1,3-Dichloropropane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	142-28-9	
2,2-Dichloropropane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	594-20-7	
1,1-Dichloropropene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	563-58-6	
cis-1,3-Dichloropropene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	10061-01-5	
trans-1,3-Dichloropropene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	10061-02-6	
Ethylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	100-41-4	
Hexachloro-1,3-butadiene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	87-68-3	
2-Hexanone	<5.5	ug/kg	11.1	5.5	1		05/25/12 12:40	591-78-6	
Isopropylbenzene (Cumene)	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	98-82-8	
p-Isopropyltoluene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	99-87-6	
Methylene chloride	<5.5	ug/kg	11.1	5.5	1		05/25/12 12:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.5	ug/kg	11.1	5.5	1		05/25/12 12:40	108-10-1	
Methyl-tert-butyl ether	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	1634-04-4	
Naphthalene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	91-20-3	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: DP07-2**      **Lab ID: 2512215036**      Collected: 05/15/12 14:00      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
n-Propylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	103-65-1	
Styrene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	100-42-5	
1,1,1,2-Tetrachloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	630-20-6	
1,1,2,2-Tetrachloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	79-34-5	
Tetrachloroethene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	127-18-4	
Toluene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	108-88-3	
1,2,3-Trichlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	87-61-6	
1,2,4-Trichlorobenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	120-82-1	
1,1,1-Trichloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	71-55-6	
1,1,2-Trichloroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	79-00-5	
Trichloroethene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	79-01-6	
Trichlorofluoromethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-69-4	
1,2,3-Trichloropropane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	76-13-1	
1,2,4-Trimethylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	95-63-6	
1,3,5-Trimethylbenzene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	108-67-8	
Vinyl chloride	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	75-01-4	
Xylene (Total)	<5.0	ug/kg	10	5.0	1		05/25/12 12:40	1330-20-7	
m&p-Xylene	<3.3	ug/kg	6.6	3.3	1		05/25/12 12:40	179601-23-1	
o-Xylene	<1.7	ug/kg	3.3	1.7	1		05/25/12 12:40	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	96 %		74-126		1		05/25/12 12:40	1868-53-7	
Toluene-d8 (S)	98 %		71-130		1		05/25/12 12:40	2037-26-5	
4-Bromofluorobenzene (S)	107 %		68-141		1		05/25/12 12:40	460-00-4	
1,2-Dichloroethane-d4 (S)	107 %		68-141		1		05/25/12 12:40	17060-07-0	

**Percent Moisture**      Analytical Method: ASTM D2974-87

Percent Moisture      **13.8 %**      0.10      0.10      1      05/22/12 17:36

**Sample: DP08-10**      **Lab ID: 2512215040**      Collected: 05/15/12 10:40      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546							
Diesel Range SG	<11.3	mg/kg	22.5	11.3	1	05/21/12 09:35	05/22/12 06:41		
Motor Oil Range SG	<45.1	mg/kg	90.1	45.1	1	05/21/12 09:35	05/22/12 06:41	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	84 %		50-150		1	05/21/12 09:35	05/22/12 06:41	630-02-4	
o-Terphenyl (S) SG	90 %		50-150		1	05/21/12 09:35	05/22/12 06:41	84-15-1	
<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx							
Gasoline Range Organics	<4.5	mg/kg	9.0	4.5	1	05/24/12 18:47	05/25/12 16:44		



## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample: DP08-10**      **Lab ID: 2512215040**      Collected: 05/15/12 10:40      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	108 %		50-150		1	05/24/12 18:47	05/25/12 16:44	98-08-8	
4-Bromofluorobenzene (S)	83 %		50-150		1	05/24/12 18:47	05/25/12 16:44	460-00-4	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	<b>10.4</b> mg/kg		0.54	0.20	20	05/31/12 11:04	06/08/12 09:32	7440-38-2	
Barium	<b>79.2</b> mg/kg		0.33	0.072	20	05/31/12 11:04	06/08/12 09:32	7440-39-3	
Cadmium	<b>0.14</b> mg/kg		0.087	0.026	20	05/31/12 11:04	06/08/12 09:32	7440-43-9	
Chromium	<b>43.5</b> mg/kg		0.54	0.19	20	05/31/12 11:04	06/08/12 09:32	7440-47-3	
Lead	<b>15.1</b> mg/kg		0.11	0.033	20	05/31/12 11:04	06/08/12 09:32	7439-92-1	B
Selenium	<b>1.9</b> mg/kg		0.54	0.21	20	05/31/12 11:04	06/08/12 09:32	7782-49-2	
Silver	<b>&lt;0.20</b> mg/kg		0.54	0.20	20	05/31/12 11:04	06/08/12 09:32	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	<b>0.085J</b> mg/kg		0.11	0.0023	1	05/23/12 14:15	05/24/12 11:24	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>30.7</b> %		0.10	0.10	1		05/22/12 17:41		

**Sample: DP09-2**      **Lab ID: 2512215042**      Collected: 05/15/12 14:40      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8082 GCS PCB S</b> Analytical Method: EPA 8082      Preparation Method: EPA 3546									
PCB-1016 (Aroclor 1016)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	12674-11-2	
PCB-1221 (Aroclor 1221)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	11104-28-2	
PCB-1232 (Aroclor 1232)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	11141-16-5	
PCB-1242 (Aroclor 1242)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	53469-21-9	
PCB-1248 (Aroclor 1248)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	12672-29-6	
PCB-1254 (Aroclor 1254)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	11097-69-1	
PCB-1260 (Aroclor 1260)	<b>&lt;20.1</b> ug/kg		20.1	20.1	1	05/21/12 12:35	05/24/12 20:24	11096-82-5	
<b>Surrogates</b>									
Tetrachloro-m-xylene (S)	97 %		30-134		1	05/21/12 12:35	05/24/12 20:24	877-09-8	
Decachlorobiphenyl (S)	86 %		20-139		1	05/21/12 12:35	05/24/12 20:24	2051-24-3	
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<b>28.5</b> mg/kg		18.6	9.3	1	05/21/12 09:35	05/22/12 07:03		
Motor Oil Range SG	<b>260</b> mg/kg		74.6	37.3	1	05/21/12 09:35	05/22/12 07:03	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	97 %		50-150		1	05/21/12 09:35	05/22/12 07:03	630-02-4	
o-Terphenyl (S) SG	100 %		50-150		1	05/21/12 09:35	05/22/12 07:03	84-15-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

**Sample:** DP09-2      **Lab ID:** 2512215042      Collected: 05/15/12 14:40      Received: 05/17/12 12:15      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<3.3	mg/kg	6.6	3.3	1	05/24/12 18:47	05/25/12 17:07		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	109	%	50-150		1	05/24/12 18:47	05/25/12 17:07	98-08-8	
4-Bromofluorobenzene (S)	84	%	50-150		1	05/24/12 18:47	05/25/12 17:07	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	2.1	mg/kg	0.58	0.22	20	05/31/12 11:04	06/08/12 09:37	7440-38-2	
Barium	61.8	mg/kg	0.35	0.076	20	05/31/12 11:04	06/08/12 09:37	7440-39-3	
Cadmium	0.19	mg/kg	0.092	0.028	20	05/31/12 11:04	06/08/12 09:37	7440-43-9	
Chromium	11.1	mg/kg	0.58	0.20	20	05/31/12 11:04	06/08/12 09:37	7440-47-3	
Lead	85.3	mg/kg	0.12	0.035	20	05/31/12 11:04	06/08/12 09:37	7439-92-1	B
Selenium	0.72	mg/kg	0.58	0.23	20	05/31/12 11:04	06/08/12 09:37	7782-49-2	
Silver	<0.21	mg/kg	0.58	0.21	20	05/31/12 11:04	06/08/12 09:37	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.046J	mg/kg	0.077	0.0016	1	05/23/12 14:15	05/24/12 11:26	7439-97-6	
<b>8270 MSSV PAH by SIM</b>									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	83-32-9	
Acenaphthylene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	208-96-8	
Anthracene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	120-12-7	
Benzo(a)anthracene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	56-55-3	
Benzo(a)pyrene	24.5	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	50-32-8	
Benzo(b)fluoranthene	15.6	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	205-99-2	
Benzo(g,h,i)perylene	12.4	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	191-24-2	
Benzo(k)fluoranthene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	207-08-9	
Chrysene	15.3	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	218-01-9	
Dibenz(a,h)anthracene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	53-70-3	
Fluoranthene	9.8	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	206-44-0	
Fluorene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	86-73-7	
Indeno(1,2,3-cd)pyrene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	193-39-5	
1-Methylnaphthalene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	90-12-0	
2-Methylnaphthalene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	91-57-6	
Naphthalene	<7.9	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	91-20-3	
Phenanthrene	8.2	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	85-01-8	
Pyrene	13.5	ug/kg	7.9	7.9	1	05/21/12 12:25	05/24/12 01:20	129-00-0	
<b>Surrogates</b>									
2-Fluorobiphenyl (S)	66	%	27-118		1	05/21/12 12:25	05/24/12 01:20	321-60-8	
Terphenyl-d14 (S)	64	%	28-125		1	05/21/12 12:25	05/24/12 01:20	1718-51-0	
<b>8260/5035A Volatile Organics</b>									
Analytical Method: EPA 8260									
Acetone	<5.5	ug/kg	10.9	5.5	1		05/25/12 13:22	67-64-1	
tert-Amylmethyl ether	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	994-05-8	
Benzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	71-43-2	
Bromobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	108-86-1	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP09-2 Lab ID: 2512215042 Collected: 05/15/12 14:40 Received: 05/17/12 12:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
Bromochloromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	74-97-5	
Bromodichloromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-27-4	
Bromoform	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-25-2	
Bromomethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	74-83-9	
2-Butanone (MEK)	<5.5	ug/kg	10.9	5.5	1		05/25/12 13:22	78-93-3	
n-Butylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	104-51-8	
sec-Butylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	135-98-8	
tert-Butylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	98-06-6	
Carbon disulfide	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-15-0	
Carbon tetrachloride	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	56-23-5	
Chlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	108-90-7	
Chloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-00-3	
Chloroform	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	67-66-3	
Chloromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	74-87-3	
2-Chlorotoluene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	95-49-8	
4-Chlorotoluene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	106-43-4	
1,2-Dibromo-3-chloropropane	<2.7	ug/kg	5.5	2.7	1		05/25/12 13:22	96-12-8	
Dibromochloromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	124-48-1	
1,2-Dibromoethane (EDB)	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	106-93-4	
Dibromomethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	74-95-3	
1,2-Dichlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	95-50-1	
1,3-Dichlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	541-73-1	
1,4-Dichlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	106-46-7	
Dichlorodifluoromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-71-8	
1,1-Dichloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-34-3	
1,2-Dichloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	107-06-2	
1,2-Dichloroethene (Total)	<3.3	ug/kg	6.6	3.3	1		05/25/12 13:22	540-59-0	
1,1-Dichloroethene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-35-4	
cis-1,2-Dichloroethene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	156-59-2	
trans-1,2-Dichloroethene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	156-60-5	
1,2-Dichloropropane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	78-87-5	
1,3-Dichloropropane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	142-28-9	
2,2-Dichloropropane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	594-20-7	
1,1-Dichloropropene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	563-58-6	
cis-1,3-Dichloropropene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	10061-01-5	
trans-1,3-Dichloropropene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	10061-02-6	
Ethylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	100-41-4	
Hexachloro-1,3-butadiene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	87-68-3	
2-Hexanone	<5.5	ug/kg	10.9	5.5	1		05/25/12 13:22	591-78-6	
Isopropylbenzene (Cumene)	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	98-82-8	
p-Isopropyltoluene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	99-87-6	
Methylene chloride	<5.5	ug/kg	10.9	5.5	1		05/25/12 13:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	<5.5	ug/kg	10.9	5.5	1		05/25/12 13:22	108-10-1	
Methyl-tert-butyl ether	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	1634-04-4	
Naphthalene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	91-20-3	

## ANALYTICAL RESULTS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Sample: DP09-2 Lab ID: 2512215042 Collected: 05/15/12 14:40 Received: 05/17/12 12:15 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260/5035A Volatile Organics</b>		Analytical Method: EPA 8260							
n-Propylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	103-65-1	
Styrene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	100-42-5	
1,1,1,2-Tetrachloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	630-20-6	
1,1,2,2-Tetrachloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	79-34-5	
Tetrachloroethene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	127-18-4	
Toluene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	108-88-3	
1,2,3-Trichlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	87-61-6	
1,2,4-Trichlorobenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	120-82-1	
1,1,1-Trichloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	71-55-6	
1,1,2-Trichloroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	79-00-5	
Trichloroethene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	79-01-6	
Trichlorofluoromethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-69-4	
1,2,3-Trichloropropane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	96-18-4	
1,1,2-Trichlorotrifluoroethane	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	76-13-1	
1,2,4-Trimethylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	95-63-6	
1,3,5-Trimethylbenzene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	108-67-8	
Vinyl chloride	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	75-01-4	
Xylene (Total)	<4.9	ug/kg	9.8	4.9	1		05/25/12 13:22	1330-20-7	
m&p-Xylene	<3.3	ug/kg	6.6	3.3	1		05/25/12 13:22	179601-23-1	
o-Xylene	<1.6	ug/kg	3.3	1.6	1		05/25/12 13:22	95-47-6	
<b>Surrogates</b>									
Dibromofluoromethane (S)	98	%	74-126		1		05/25/12 13:22	1868-53-7	
Toluene-d8 (S)	101	%	71-130		1		05/25/12 13:22	2037-26-5	
4-Bromofluorobenzene (S)	106	%	68-141		1		05/25/12 13:22	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	68-141		1		05/25/12 13:22	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	16.6	%	0.10	0.10	1		05/22/12 17:45		

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: GCV/2796 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

METHOD BLANK: 116556 Matrix: Solid  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	5.0	05/25/12 14:00	
4-Bromofluorobenzene (S)	%	78	50-150	05/25/12 14:00	
a,a,a-Trifluorotoluene (S)	%	98	50-150	05/25/12 14:00	

LABORATORY CONTROL SAMPLE: 116557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	12.5	11.6	93	63-140	
4-Bromofluorobenzene (S)	%			81	50-150	
a,a,a-Trifluorotoluene (S)	%			98	50-150	

SAMPLE DUPLICATE: 116934

Parameter	Units	2512215020 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	<2.5		30	
4-Bromofluorobenzene (S)	%	81	68	17		
a,a,a-Trifluorotoluene (S)	%	108	98	10		

SAMPLE DUPLICATE: 116935

Parameter	Units	2512228018 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg		<3.0			
4-Bromofluorobenzene (S)	%		73			
a,a,a-Trifluorotoluene (S)	%		96			

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: ICPM/32617 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

METHOD BLANK: 1203701 Matrix: Solid  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.15	0.40	06/07/12 17:03	
Barium	mg/kg	<0.052	0.24	06/07/12 17:03	
Cadmium	mg/kg	<0.019	0.063	06/07/12 17:03	
Chromium	mg/kg	<0.14	0.40	06/07/12 17:03	
Lead	mg/kg	0.026J	0.079	06/07/12 17:03	
Selenium	mg/kg	<0.16	0.40	06/07/12 17:03	
Silver	mg/kg	0.21J	0.40	06/07/12 17:03	

LABORATORY CONTROL SAMPLE: 1203702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	15.4	15.1	98	80-120	
Barium	mg/kg	15.4	15.7	102	80-120	
Cadmium	mg/kg	15.4	15.4	100	80-120	
Chromium	mg/kg	15.4	15.7	102	80-120	
Lead	mg/kg	15.4	15.6	102	80-120	
Selenium	mg/kg	15.4	14.9	97	80-120	
Silver	mg/kg	15.4	16.1	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203703 1203704

Parameter	Units	2512229021		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Arsenic	mg/kg	8.5	25	21.7	36.4	30.3	112	101	75-125	18	30	
Barium	mg/kg	108	25	21.7	147	125	156	80	75-125	16	30	M6
Cadmium	mg/kg	0.12	25	21.7	25.5	21.0	101	96	75-125	20	30	
Chromium	mg/kg	32.7	25	21.7	82.5	74.9	199	194	75-125	10	30	M6
Lead	mg/kg	14.9	25	21.7	41.1	34.3	105	89	75-125	18	30	
Selenium	mg/kg	1.6	25	21.7	26.3	21.9	98	93	75-125	18	30	
Silver	mg/kg	<0.22	25	21.7	25.3	21.2	101	97	75-125	18	30	

MATRIX SPIKE SAMPLE: 1203705

Parameter	Units	2512215020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	2.1	15.1	21.9	131	75-125	M6
Barium	mg/kg	19.7	15.1	53.2	221	75-125	M6
Cadmium	mg/kg	<0.023	15.1	21.2	140	75-125	M6
Chromium	mg/kg	15.6	15.1	43.3	183	75-125	M6

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

MATRIX SPIKE SAMPLE:		1203705					
Parameter	Units	2512215020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	2.5	15.1	24.0	142	75-125	M6
Selenium	mg/kg	0.43J	15.1	19.7	127	75-125	M6
Silver	mg/kg	<0.18	15.1	20.6	136	75-125	M6

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: ICPM/32621 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

METHOD BLANK: 1203716 Matrix: Water  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	0.16J	0.50	05/31/12 19:53	
Barium	ug/L	<0.15	0.30	05/31/12 19:53	
Cadmium	ug/L	<0.028	0.080	05/31/12 19:53	
Chromium	ug/L	<0.094	0.50	05/31/12 19:53	
Lead	ug/L	<0.018	0.10	05/31/12 19:53	
Selenium	ug/L	<0.22	0.50	05/31/12 19:53	
Silver	ug/L	<0.25	0.50	05/31/12 19:53	

LABORATORY CONTROL SAMPLE: 1203717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	82.5	103	80-120	
Barium	ug/L	80	80.9	101	80-120	
Cadmium	ug/L	80	79.6	100	80-120	
Chromium	ug/L	80	79.6	100	80-120	
Lead	ug/L	80	81.5	102	80-120	
Selenium	ug/L	80	79.0	99	80-120	
Silver	ug/L	80	80.3	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1203718 1203719

Parameter	Units	2512215001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Arsenic	ug/L	2.0	80	80	83.4	83.5	102	102	75-125	.1	20	
Barium	ug/L	35.8	80	80	116	116	100	101	75-125	.7	20	
Cadmium	ug/L	0.053J	80	80	79.1	78.8	99	98	75-125	.3	20	
Chromium	ug/L	3.3	80	80	83.2	81.6	100	98	75-125	2	20	
Lead	ug/L	1.7	80	80	79.6	79.3	97	97	75-125	.3	20	
Selenium	ug/L	0.30J	80	80	77.4	78.0	96	97	75-125	.9	20	
Silver	ug/L	0.45J	80	80	75.9	77.0	94	96	75-125	2	20	

MATRIX SPIKE SAMPLE: 1203720

Parameter	Units	2512229003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	0.0015 mg/kg	80	84.6	104	75-125	
Barium	ug/L	0.034 mg/kg	80	117	103	75-125	



### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

MATRIX SPIKE SAMPLE:		1203720					
Parameter	Units	2512229003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	ug/L	0.000051J mg/kg	80	80.1	100	75-125	
Chromium	ug/L	0.0018 mg/kg	80	82.8	101	75-125	
Lead	ug/L	0.0035 mg/kg	80	82.7	99	75-125	
Selenium	ug/L	<0.00022 mg/kg	80	79.0	99	75-125	
Silver	ug/L	<0.00025 mg/kg	80	76.2	95	75-125	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: ICPM/32664 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 2512215005, 2512215006, 2512215009

METHOD BLANK: 1205435 Matrix: Water

Associated Lab Samples: 2512215005, 2512215006, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	0.14J	0.50	05/31/12 13:36	
Barium, Dissolved	ug/L	<0.15	0.30	05/31/12 13:36	
Cadmium, Dissolved	ug/L	<0.028	0.080	05/31/12 13:36	
Chromium, Dissolved	ug/L	<0.094	0.50	06/01/12 14:29	
Lead, Dissolved	ug/L	0.045J	0.10	05/31/12 13:36	
Selenium, Dissolved	ug/L	<0.22	0.50	05/31/12 13:36	
Silver, Dissolved	ug/L	<0.25	0.50	05/31/12 13:36	

LABORATORY CONTROL SAMPLE: 1205436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	81.4	102	85-115	
Barium, Dissolved	ug/L	80	79.2	99	85-115	
Cadmium, Dissolved	ug/L	80	78.8	99	85-115	
Chromium, Dissolved	ug/L	80	77.7	97	85-115	
Lead, Dissolved	ug/L	80	78.3	98	85-115	
Selenium, Dissolved	ug/L	80	80.2	100	85-115	
Silver, Dissolved	ug/L	80	80.0	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1205437 1205438

Parameter	Units	2512229006		MS		MSD		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD				
Arsenic, Dissolved	ug/L	0.00062 mg/kg	80	80	80	80	79.2	81.1	98	101	70-130	2	20			
Barium, Dissolved	ug/L	0.022 mg/kg	80	80	80	80	98.3	101	96	99	70-130	2	20			
Cadmium, Dissolved	ug/L	<0.0000 28 mg/kg	80	80	80	80	78.0	78.8	97	98	70-130	1	20			
Chromium, Dissolved	ug/L	0.00017 J mg/kg	80	80	80	80	76.1	78.2	95	98	70-130	3	20			
Lead, Dissolved	ug/L	0.00017 mg/kg	80	80	80	80	76.0	77.5	95	97	70-130	2	20			
Selenium, Dissolved	ug/L	<0.0002 2 mg/kg	80	80	80	80	78.1	77.4	98	97	70-130	1	20			
Silver, Dissolved	ug/L	0.00030 J mg/kg	80	80	80	80	75.4	78.4	94	98	70-130	4	20			

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MERP/1691 Analysis Method: EPA 7470  
 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

METHOD BLANK: 116012 Matrix: Water  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.010	0.20	05/23/12 15:15	

LABORATORY CONTROL SAMPLE: 116013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116014 116015

Parameter	Units	2512215001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.010	5	5	6.1	6.3	122	125	75-125	3	20	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MERP/1690

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury ,Dissolved

Associated Lab Samples: 2512215005, 2512215006, 2512215009

METHOD BLANK: 116008

Matrix: Water

Associated Lab Samples: 2512215005, 2512215006, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.010	0.20	05/23/12 14:58	

LABORATORY CONTROL SAMPLE: 116009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116010

116011

Parameter	Units	2512215005		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec						
Mercury, Dissolved	ug/L	<0.010	5	5	5	5	6.1	5.7	121	115	75-125	6	20		

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MERP/1692 Analysis Method: EPA 7471  
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036

METHOD BLANK: 116016 Matrix: Solid  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0022	0.10	05/23/12 16:58	

LABORATORY CONTROL SAMPLE: 116017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.52	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116018 116019

Parameter	Units	2512215020		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Mercury	mg/kg	<0.0024	.54	.54	0.65	0.57	118	104	80-120	13	20	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MERP/1695      Analysis Method: EPA 7471  
 QC Batch Method: EPA 7471      Analysis Description: 7471 Mercury  
 Associated Lab Samples: 2512215040, 2512215042

METHOD BLANK: 116258      Matrix: Solid

Associated Lab Samples: 2512215040, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0022	0.10	05/24/12 11:13	

LABORATORY CONTROL SAMPLE: 116259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116260      116261

Parameter	Units	2512277001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Mercury	mg/kg	0.015J	.38	.39	0.38	0.39	95	94	80-120	1	20	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7028 Analysis Method: EPA 5030B/8260  
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
 Associated Lab Samples: 2512215005, 2512215008

METHOD BLANK: 115947 Matrix: Water

Associated Lab Samples: 2512215005, 2512215008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/23/12 12:55	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/23/12 12:55	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/23/12 12:55	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
1,2,4-Trimethylbenzene	ug/L	0.27J	1.0	05/23/12 12:55	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/23/12 12:55	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/23/12 12:55	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/23/12 12:55	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/23/12 12:55	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/23/12 12:55	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/23/12 12:55	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/23/12 12:55	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/23/12 12:55	
2-Chlorotoluene	ug/L	<0.10	1.0	05/23/12 12:55	
2-Hexanone	ug/L	<1.0	5.0	05/23/12 12:55	
4-Chlorotoluene	ug/L	<0.10	1.0	05/23/12 12:55	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/23/12 12:55	
Acetone	ug/L	1.3J	5.0	05/23/12 12:55	
Benzene	ug/L	0.14J	1.0	05/23/12 12:55	
Bromobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
Bromochloromethane	ug/L	<0.10	1.0	05/23/12 12:55	
Bromodichloromethane	ug/L	<0.10	1.0	05/23/12 12:55	
Bromoform	ug/L	<0.10	1.0	05/23/12 12:55	
Bromomethane	ug/L	<0.10	1.0	05/23/12 12:55	
Carbon disulfide	ug/L	<0.10	1.0	05/23/12 12:55	
Carbon tetrachloride	ug/L	<0.10	1.0	05/23/12 12:55	
Chlorobenzene	ug/L	<0.10	1.0	05/23/12 12:55	
Chloroethane	ug/L	<0.10	1.0	05/23/12 12:55	
Chloroform	ug/L	<0.10	1.0	05/23/12 12:55	
Chloromethane	ug/L	<0.10	1.0	05/23/12 12:55	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/23/12 12:55	
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/23/12 12:55	
Dibromochloromethane	ug/L	<0.10	1.0	05/23/12 12:55	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

METHOD BLANK: 115947

Matrix: Water

Associated Lab Samples: 2512215005, 2512215008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.10	1.0	05/23/12 12:55	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/23/12 12:55	
Ethylbenzene	ug/L	0.12J	1.0	05/23/12 12:55	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/23/12 12:55	
Isopropylbenzene (Cumene)	ug/L	0.88J	1.0	05/23/12 12:55	
m&p-Xylene	ug/L	0.30J	2.0	05/23/12 12:55	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/23/12 12:55	
Methylene chloride	ug/L	1.7J	5.0	05/23/12 12:55	
n-Butylbenzene	ug/L	0.14J	1.0	05/23/12 12:55	
n-Propylbenzene	ug/L	<0.10	1.0	05/23/12 12:55	
Naphthalene	ug/L	<0.10	1.0	05/23/12 12:55	
o-Xylene	ug/L	<0.10	1.0	05/23/12 12:55	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/23/12 12:55	
sec-Butylbenzene	ug/L	<0.10	1.0	05/23/12 12:55	
Styrene	ug/L	<0.10	1.0	05/23/12 12:55	
tert-Butylbenzene	ug/L	<0.10	1.0	05/23/12 12:55	
Tetrachloroethene	ug/L	<0.10	1.0	05/23/12 12:55	
Toluene	ug/L	0.12J	1.0	05/23/12 12:55	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/23/12 12:55	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/23/12 12:55	
Trichloroethene	ug/L	<0.10	1.0	05/23/12 12:55	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/23/12 12:55	
Vinyl chloride	ug/L	<0.10	1.0	05/23/12 12:55	
Xylene (Total)	ug/L	0.39J	3.0	05/23/12 12:55	
1,2-Dichloroethane-d4 (S)	%	92	72-127	05/23/12 12:55	
4-Bromofluorobenzene (S)	%	112	79-121	05/23/12 12:55	
Dibromofluoromethane (S)	%	98	81-119	05/23/12 12:55	
Toluene-d8 (S)	%	104	77-120	05/23/12 12:55	

LABORATORY CONTROL SAMPLE: 115948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.9	94	70-122	
1,1,1-Trichloroethane	ug/L	20	19.6	98	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	18.1	91	62-133	
1,1,2-Trichloroethane	ug/L	20	18.6	93	68-122	
1,1-Dichloroethane	ug/L	20	19.6	98	70-125	
1,1-Dichloroethene	ug/L	20	16.6	83	69-142	
1,1-Dichloropropene	ug/L	20	19.3	96	67-129	
1,2,3-Trichlorobenzene	ug/L	20	14.4	72	60-132	
1,2,3-Trichloropropane	ug/L	20	18.3	92	65-120	
1,2,4-Trichlorobenzene	ug/L	20	15.6	78	62-127	
1,2,4-Trimethylbenzene	ug/L	20	20.2	101	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.7	94	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	18.1	90	65-123	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 115948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	18.5	92	71-118	
1,2-Dichloroethane	ug/L	20	17.8	89	63-131	
1,2-Dichloroethene (Total)	ug/L	40	37.7	94	73-134	
1,2-Dichloropropane	ug/L	20	19.3	97	70-125	
1,3,5-Trimethylbenzene	ug/L	20	20.2	101	70-123	
1,3-Dichlorobenzene	ug/L	20	18.9	94	72-119	
1,3-Dichloropropane	ug/L	20	18.2	91	69-122	
1,4-Dichlorobenzene	ug/L	20	17.8	89	70-116	
2,2-Dichloropropane	ug/L	20	20.6	103	52-149	
2-Butanone (MEK)	ug/L	40	31.6	79	45-155	
2-Chlorotoluene	ug/L	20	19.3	97	69-119	
2-Hexanone	ug/L	40	32.2	80	50-151	
4-Chlorotoluene	ug/L	20	19.3	97	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	33.1	83	61-145	
Acetone	ug/L	40	23.6	59	40-160	
Benzene	ug/L	20	17.0	85	66-123	
Bromobenzene	ug/L	20	19.7	98	68-118	
Bromochloromethane	ug/L	20	18.7	93	72-128	
Bromodichloromethane	ug/L	20	18.6	93	68-129	
Bromoform	ug/L	20	16.6	83	54-118	
Bromomethane	ug/L	20	18.2	91	43-151	
Carbon disulfide	ug/L	20	17.4	87	52-142	
Carbon tetrachloride	ug/L	20	20.6	103	67-135	
Chlorobenzene	ug/L	20	18.6	93	72-116	
Chloroethane	ug/L	20	17.5	88	48-139	
Chloroform	ug/L	20	19.1	96	71-124	
Chloromethane	ug/L	20	20.2	101	40-152	
cis-1,2-Dichloroethene	ug/L	20	19.2	96	74-133	
cis-1,3-Dichloropropene	ug/L	10	10.0	100	64-132	
Dibromochloromethane	ug/L	20	18.5	92	60-121	
Dibromomethane	ug/L	20	17.6	88	69-131	
Dichlorodifluoromethane	ug/L	20	24.7	124	40-160	
Ethylbenzene	ug/L	20	20.3	102	67-122	
Hexachloro-1,3-butadiene	ug/L	20	20.7	103	55-139	
Isopropylbenzene (Cumene)	ug/L	20	18.8	94	67-124	
m&p-Xylene	ug/L	40	38.9	97	66-122	
Methyl-tert-butyl ether	ug/L	20	17.3	86	65-138	
Methylene chloride	ug/L	20	17.3	86	58-137	
n-Butylbenzene	ug/L	20	21.0	105	68-129	
n-Propylbenzene	ug/L	20	20.5	103	66-126	
Naphthalene	ug/L	20	13.6	68	59-133	
o-Xylene	ug/L	20	19.4	97	69-123	
p-Isopropyltoluene	ug/L	20	19.2	96	69-127	
sec-Butylbenzene	ug/L	20	20.3	101	68-129	
Styrene	ug/L	20	16.9	84	72-125	
tert-Butylbenzene	ug/L	20	19.9	100	58-120	
Tetrachloroethene	ug/L	20	19.8	99	40-115	
Toluene	ug/L	20	19.0	95	64-118	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 115948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	18.5	93	70-134	
trans-1,3-Dichloropropene	ug/L	10	8.1	81	52-115	
Trichloroethene	ug/L	20	19.6	98	69-125	
Trichlorofluoromethane	ug/L	20	18.2	91	57-155	
Vinyl chloride	ug/L	20	20.5	102	53-132	
Xylene (Total)	ug/L	60	58.4	97	68-122	
1,2-Dichloroethane-d4 (S)	%			92	72-127	
4-Bromofluorobenzene (S)	%			94	79-121	
Dibromofluoromethane (S)	%			96	81-119	
Toluene-d8 (S)	%			102	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116196 116197

Parameter	Units	2512090031		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	21.7	21.6	109	108	67-132	.8	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	20	23.3	23.6	117	118	67-145	1	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	19.4	19.3	97	96	65-135	.5	23	
1,1,2-Trichloroethane	ug/L	ND	20	20	20	21.1	20.5	105	102	67-126	3	22	
1,1-Dichloroethane	ug/L	ND	20	20	20	22.9	23.0	114	115	69-138	.7	21	
1,1-Dichloroethene	ug/L	ND	20	20	20	20.2	20.3	101	102	68-160	.7	21	
1,1-Dichloropropene	ug/L	ND	20	20	20	23.3	23.6	116	118	68-145	2	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	17.9	18.6	89	93	57-131	4	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	20	19.8	18.3	99	92	61-123	8	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	19.5	20.3	97	101	58-130	4	24	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	23.2	23.2	112	112	60-136	.08	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	20.4	20.2	102	101	48-127	1	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	20.3	19.2	101	96	61-127	5	25	
1,2-Dichlorobenzene	ug/L	ND	20	20	20	20.7	20.9	104	105	67-126	.9	21	
1,2-Dichloroethane	ug/L	ND	20	20	20	19.7	19.7	99	99	60-138	.1	23	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	40	45.5	46.0	114	115	70-146	1	22	
1,2-Dichloropropane	ug/L	ND	20	20	20	22.1	22.1	110	111	67-138	.3	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	23.1	22.9	115	114	64-135	1	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	20	21.8	21.8	109	109	69-128	.1	21	
1,3-Dichloropropane	ug/L	ND	20	20	20	20.3	20.2	102	101	65-128	.8	22	
1,4-Dichlorobenzene	ug/L	ND	20	20	20	20.6	20.9	103	104	66-124	1	28	
2,2-Dichloropropane	ug/L	ND	20	20	20	24.6	24.6	123	123	46-160	.3	24	
2-Butanone (MEK)	ug/L	ND	40	40	40	35.8	35.7	90	89	40-140	.4	25	
2-Chlorotoluene	ug/L	ND	20	20	20	22.3	22.2	112	111	67-129	.5	20	
2-Hexanone	ug/L	ND	40	40	40	36.2	35.6	90	89	42-141	2	27	
4-Chlorotoluene	ug/L	ND	20	20	20	22.2	22.3	111	111	67-133	.004	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	40	36.3	36.0	90	90	54-151	.9	27	
Acetone	ug/L	ND	40	40	40	25.3	25.1	60	60	40-155	1	30	
Benzene	ug/L	ND	20	20	20	19.9	20.1	96	97	63-138	.9	24	
Bromobenzene	ug/L	ND	20	20	20	22.6	22.1	113	111	64-127	2	21	
Bromochloromethane	ug/L	ND	20	20	20	20.8	21.4	104	107	66-136	3	22	
Bromodichloromethane	ug/L	ND	20	20	20	20.9	21.0	104	105	65-138	.8	23	

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Project No.: 2512215

Parameter	Units	2512090031		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec								
Bromoform	ug/L	ND	20	20	18.0	17.7	90	89	51-119	2	23					
Bromomethane	ug/L	ND	20	20	21.8	22.8	109	114	40-158	5	26					
Carbon disulfide	ug/L	ND	20	20	21.3	21.8	106	109	56-158	2	23					
Carbon tetrachloride	ug/L	ND	20	20	24.6	24.8	123	124	66-152	1	22					
Chlorobenzene	ug/L	ND	20	20	21.7	21.5	108	108	68-128	.6	27					
Chloroethane	ug/L	ND	20	20	19.6	20.4	98	102	49-154	4	25					
Chloroform	ug/L	ND	20	20	22.0	21.8	110	109	69-137	1	21					
Chloromethane	ug/L	ND	20	20	24.8	25.4	123	126	40-160	3	25					
cis-1,2-Dichloroethene	ug/L	ND	20	20	23.0	23.3	115	116	69-147	1	21					
cis-1,3-Dichloropropene	ug/L	ND	10	10	11.6	11.5	116	115	60-141	.9	23					
Dibromochloromethane	ug/L	ND	20	20	20.7	20.2	103	101	56-125	2	23					
Dibromomethane	ug/L	ND	20	20	19.7	19.3	98	97	63-137	2	23					
Dichlorodifluoromethane	ug/L	ND	20	20	28.3	31.1	142	155	40-160	9	24					
Ethylbenzene	ug/L	ND	20	20	23.8	23.7	115	115	65-135	.2	25					
Hexachloro-1,3-butadiene	ug/L	ND	20	20	24.1	24.8	121	124	50-149	3	19					
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.9	21.9	104	104	64-137	.06	27					
m&p-Xylene	ug/L	ND	40	40	45.6	45.4	113	112	63-134	.5	25					
Methyl-tert-butyl ether	ug/L	ND	20	20	19.1	19.0	96	95	59-143	.6	26					
Methylene chloride	ug/L	ND	20	20	18.7	19.0	93	95	52-133	2	23					
n-Butylbenzene	ug/L	ND	20	20	25.0	25.6	123	126	65-143	2	20					
n-Propylbenzene	ug/L	ND	20	20	23.7	23.8	114	115	64-141	.4	25					
Naphthalene	ug/L	ND	20	20	16.9	17.4	40	43	48-141	3	29 M1					
o-Xylene	ug/L	ND	20	20	22.1	22.3	110	111	68-131	.8	23					
p-Isopropyltoluene	ug/L	ND	20	20	22.9	22.9	114	114	69-137	.04	21					
sec-Butylbenzene	ug/L	ND	20	20	23.9	24.0	119	120	69-139	.6	20					
Styrene	ug/L	ND	20	20	19.4	19.3	97	97	67-135	.4	23					
tert-Butylbenzene	ug/L	ND	20	20	23.3	23.3	116	117	61-129	.3	21					
Tetrachloroethene	ug/L	ND	20	20	23.5	23.3	117	117	40-122	.7	21					
Toluene	ug/L	4.5	20	20	22.0	22.0	110	110	64-128	.04	24					
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.6	22.7	113	114	66-150	.6	21					
trans-1,3-Dichloropropene	ug/L	ND	10	10	9.8	9.4	98	94	51-116	5	23					
Trichloroethene	ug/L	ND	20	20	23.2	23.3	116	116	68-135	.4	21					
Trichlorofluoromethane	ug/L	ND	20	20	20.3	21.8	101	109	54-160	7	23					
Vinyl chloride	ug/L	ND	20	20	24.6	27.1	123	135	45-155	10	22					
Xylene (Total)	ug/L	ND	60	60	67.7	67.7	112	112	65-133	.08	25					
1,2-Dichloroethane-d4 (S)	%						92	91	72-127							
4-Bromofluorobenzene (S)	%						94	91	79-121							
Dibromofluoromethane (S)	%						96	96	81-119							
Toluene-d8 (S)	%						102	102	77-120							

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7070

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 2512215009

METHOD BLANK: 116716

Matrix: Water

Associated Lab Samples: 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/25/12 17:14	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/25/12 17:14	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/25/12 17:14	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/25/12 17:14	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/25/12 17:14	
1,2,4-Trimethylbenzene	ug/L	0.25J	1.0	05/25/12 17:14	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/25/12 17:14	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/25/12 17:14	
1,2-Dichlorobenzene	ug/L	0.21J	1.0	05/25/12 17:14	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/25/12 17:14	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/25/12 17:14	
1,3,5-Trimethylbenzene	ug/L	0.15J	1.0	05/25/12 17:14	
1,3-Dichlorobenzene	ug/L	0.18J	1.0	05/25/12 17:14	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/25/12 17:14	
1,4-Dichlorobenzene	ug/L	0.26J	1.0	05/25/12 17:14	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/25/12 17:14	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/25/12 17:14	
2-Chlorotoluene	ug/L	0.13J	1.0	05/25/12 17:14	
2-Hexanone	ug/L	<1.0	5.0	05/25/12 17:14	
4-Chlorotoluene	ug/L	0.14J	1.0	05/25/12 17:14	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/25/12 17:14	
Acetone	ug/L	<1.0	5.0	05/25/12 17:14	
Benzene	ug/L	<0.10	1.0	05/25/12 17:14	
Bromobenzene	ug/L	<0.10	1.0	05/25/12 17:14	
Bromochloromethane	ug/L	<0.10	1.0	05/25/12 17:14	
Bromodichloromethane	ug/L	<0.10	1.0	05/25/12 17:14	
Bromoform	ug/L	<0.10	1.0	05/25/12 17:14	
Bromomethane	ug/L	<0.10	1.0	05/25/12 17:14	
Carbon disulfide	ug/L	0.13J	1.0	05/25/12 17:14	
Carbon tetrachloride	ug/L	<0.10	1.0	05/25/12 17:14	
Chlorobenzene	ug/L	<0.10	1.0	05/25/12 17:14	
Chloroethane	ug/L	<0.10	1.0	05/25/12 17:14	
Chloroform	ug/L	<0.10	1.0	05/25/12 17:14	
Chloromethane	ug/L	<0.10	1.0	05/25/12 17:14	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/25/12 17:14	
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/25/12 17:14	
Dibromochloromethane	ug/L	<0.10	1.0	05/25/12 17:14	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

METHOD BLANK: 116716

Matrix: Water

Associated Lab Samples: 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.10	1.0	05/25/12 17:14	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/25/12 17:14	
Ethylbenzene	ug/L	<0.10	1.0	05/25/12 17:14	
Hexachloro-1,3-butadiene	ug/L	0.60J	1.0	05/25/12 17:14	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/25/12 17:14	
m&p-Xylene	ug/L	0.22J	2.0	05/25/12 17:14	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/25/12 17:14	
Methylene chloride	ug/L	1.7J	5.0	05/25/12 17:14	
n-Butylbenzene	ug/L	0.59J	1.0	05/25/12 17:14	
n-Propylbenzene	ug/L	0.22J	1.0	05/25/12 17:14	
Naphthalene	ug/L	<0.10	1.0	05/25/12 17:14	
o-Xylene	ug/L	<0.10	1.0	05/25/12 17:14	
p-Isopropyltoluene	ug/L	0.32J	1.0	05/25/12 17:14	
sec-Butylbenzene	ug/L	0.28J	1.0	05/25/12 17:14	
Styrene	ug/L	<0.10	1.0	05/25/12 17:14	
tert-Butylbenzene	ug/L	0.16J	1.0	05/25/12 17:14	
Tetrachloroethene	ug/L	<0.10	1.0	05/25/12 17:14	
Toluene	ug/L	<0.10	1.0	05/25/12 17:14	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/25/12 17:14	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/25/12 17:14	
Trichloroethene	ug/L	<0.10	1.0	05/25/12 17:14	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/25/12 17:14	
Vinyl chloride	ug/L	<0.10	1.0	05/25/12 17:14	
Xylene (Total)	ug/L	<0.30	3.0	05/25/12 17:14	
1,2-Dichloroethane-d4 (S)	%	97	72-127	05/25/12 17:14	
4-Bromofluorobenzene (S)	%	107	79-121	05/25/12 17:14	
Dibromofluoromethane (S)	%	99	81-119	05/25/12 17:14	
Toluene-d8 (S)	%	103	77-120	05/25/12 17:14	

LABORATORY CONTROL SAMPLE: 116717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	16.9	84	70-122	
1,1,1-Trichloroethane	ug/L	20	15.8	79	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	87	62-133	
1,1,2-Trichloroethane	ug/L	20	17.8	89	68-122	
1,1-Dichloroethane	ug/L	20	16.3	82	70-125	
1,1-Dichloroethene	ug/L	20	16.5	83	69-142	
1,1-Dichloropropene	ug/L	20	15.9	80	67-129	
1,2,3-Trichlorobenzene	ug/L	20	15.8	79	60-132	
1,2,3-Trichloropropane	ug/L	20	18.5	92	65-120	
1,2,4-Trichlorobenzene	ug/L	20	15.5	77	62-127	
1,2,4-Trimethylbenzene	ug/L	20	16.2	81	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.4	92	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	18.1	90	65-123	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 116717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	16.4	82	71-118	
1,2-Dichloroethane	ug/L	20	17.0	85	63-131	
1,2-Dichloroethene (Total)	ug/L	40	32.4	81	73-134	
1,2-Dichloropropane	ug/L	20	16.7	83	70-125	
1,3,5-Trimethylbenzene	ug/L	20	15.9	79	70-123	
1,3-Dichlorobenzene	ug/L	20	16.0	80	72-119	
1,3-Dichloropropane	ug/L	20	17.5	87	69-122	
1,4-Dichlorobenzene	ug/L	20	15.8	79	70-116	
2,2-Dichloropropane	ug/L	20	15.2	76	52-149	
2-Butanone (MEK)	ug/L	40	36.2	90	45-155	
2-Chlorotoluene	ug/L	20	15.4	77	69-119	
2-Hexanone	ug/L	40	38.2	96	50-151	
4-Chlorotoluene	ug/L	20	16.3	82	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	36.3	91	61-145	
Acetone	ug/L	40	41.6	104	40-160	
Benzene	ug/L	20	14.1	71	66-123	
Bromobenzene	ug/L	20	16.7	83	68-118	
Bromochloromethane	ug/L	20	17.2	86	72-128	
Bromodichloromethane	ug/L	20	16.8	84	68-129	
Bromoform	ug/L	20	16.9	85	54-118	
Bromomethane	ug/L	20	22.5	112	43-151	
Carbon disulfide	ug/L	20	16.6	83	52-142	
Carbon tetrachloride	ug/L	20	16.0	80	67-135	
Chlorobenzene	ug/L	20	15.6	78	72-116	
Chloroethane	ug/L	20	18.7	94	48-139	
Chloroform	ug/L	20	16.3	82	71-124	
Chloromethane	ug/L	20	20.0	100	40-152	
cis-1,2-Dichloroethene	ug/L	20	16.8	84	74-133	
cis-1,3-Dichloropropene	ug/L	10	8.6	86	64-132	
Dibromochloromethane	ug/L	20	17.3	86	60-121	
Dibromomethane	ug/L	20	17.2	86	69-131	
Dichlorodifluoromethane	ug/L	20	21.0	105	40-160	
Ethylbenzene	ug/L	20	16.6	83	67-122	
Hexachloro-1,3-butadiene	ug/L	20	16.7	83	55-139	
Isopropylbenzene (Cumene)	ug/L	20	16.2	81	67-124	
m&p-Xylene	ug/L	40	33.2	83	66-122	
Methyl-tert-butyl ether	ug/L	20	17.8	89	65-138	
Methylene chloride	ug/L	20	18.2	91	58-137	
n-Butylbenzene	ug/L	20	17.4	87	68-129	
n-Propylbenzene	ug/L	20	15.9	80	66-126	
Naphthalene	ug/L	20	15.4	77	59-133	
o-Xylene	ug/L	20	16.6	83	69-123	
p-Isopropyltoluene	ug/L	20	15.4	77	69-127	
sec-Butylbenzene	ug/L	20	16.0	80	68-129	
Styrene	ug/L	20	16.4	82	72-125	
tert-Butylbenzene	ug/L	20	15.5	78	58-120	
Tetrachloroethene	ug/L	20	15.8	79	40-115	
Toluene	ug/L	20	16.0	80	64-118	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 116717

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	15.6	78	70-134	
trans-1,3-Dichloropropene	ug/L	10	7.3	73	52-115	
Trichloroethene	ug/L	20	15.4	77	69-125	
Trichlorofluoromethane	ug/L	20	20.8	104	57-155	
Vinyl chloride	ug/L	20	20.9	105	53-132	
Xylene (Total)	ug/L	60	49.8	83	68-122	
1,2-Dichloroethane-d4 (S)	%			99	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117357 117358

Parameter	2512394001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20.2	19.4	101	97	67-132	4	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	21.3	20.2	107	101	67-145	5	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	18.7	18.3	94	91	65-135	3	23	
1,1,2-Trichloroethane	ug/L	ND	20	20	20.3	19.2	102	96	67-126	6	22	
1,1-Dichloroethane	ug/L	ND	20	20	20.8	19.9	104	99	69-138	5	21	
1,1-Dichloroethene	ug/L	ND	20	20	22.7	21.5	114	107	68-160	6	21	
1,1-Dichloropropene	ug/L	ND	20	20	22.5	21.2	112	106	68-145	6	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	19.1	18.7	95	93	57-131	2	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	19.1	18.5	96	93	61-123	3	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.7	19.0	99	95	58-130	4	24	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	19.9	19.4	99	97	60-136	3	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20.1	19.5	100	98	48-127	3	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20.0	18.9	100	94	61-127	6	25	
1,2-Dichlorobenzene	ug/L	ND	20	20	19.5	18.6	97	93	67-126	4	21	
1,2-Dichloroethane	ug/L	ND	20	20	19.7	19.0	99	95	60-138	4	23	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	42.3	40.4	106	101	70-146	5	22	
1,2-Dichloropropane	ug/L	ND	20	20	20.0	19.5	100	97	67-138	3	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	19.9	19.4	99	97	64-135	3	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	19.4	18.7	97	94	69-128	4	21	
1,3-Dichloropropane	ug/L	ND	20	20	19.5	18.6	97	93	65-128	5	22	
1,4-Dichlorobenzene	ug/L	ND	20	20	19.2	18.5	96	93	66-124	3	28	
2,2-Dichloropropane	ug/L	ND	20	20	22.1	21.0	111	105	46-160	5	24	
2-Butanone (MEK)	ug/L	ND	40	40	35.9	37.2	90	93	40-140	4	25	
2-Chlorotoluene	ug/L	ND	20	20	18.9	18.3	94	92	67-129	3	20	
2-Hexanone	ug/L	ND	40	40	41.8	40.9	104	102	42-141	2	27	
4-Chlorotoluene	ug/L	ND	20	20	19.9	19.3	100	97	67-133	3	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	40.1	38.8	100	97	54-151	3	27	
Acetone	ug/L	ND	40	40	45.5	42.7	114	107	40-155	6	30	
Benzene	ug/L	ND	20	20	18.3	17.5	91	87	63-138	4	24	
Bromobenzene	ug/L	ND	20	20	19.7	19.3	98	96	64-127	2	21	
Bromochloromethane	ug/L	ND	20	20	20.3	19.9	102	100	66-136	2	22	
Bromodichloromethane	ug/L	ND	20	20	20.3	19.5	101	97	65-138	4	23	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Project No.: 2512215

Parameter	2512394001		MS		MSD		MS		MSD		Max	
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Bromoform	ug/L	ND	20	20	18.9	17.8	94	89	51-119	6	23	
Bromomethane	ug/L	ND	20	20	23.0	21.9	115	109	40-158	5	26	
Carbon disulfide	ug/L	ND	20	20	23.2	22.0	116	110	56-158	5	23	
Carbon tetrachloride	ug/L	ND	20	20	22.2	21.2	111	106	66-152	5	22	
Chlorobenzene	ug/L	ND	20	20	19.3	18.5	96	92	68-128	4	27	
Chloroethane	ug/L	ND	20	20	19.2	18.3	96	91	49-154	5	25	
Chloroform	ug/L	ND	20	20	20.5	19.8	102	99	69-137	3	21	
Chloromethane	ug/L	ND	20	20	20.8	20.1	104	100	40-160	3	25	
cis-1,2-Dichloroethene	ug/L	ND	20	20	21.5	20.4	108	102	69-147	5	21	
cis-1,3-Dichloropropene	ug/L	ND	10	10	10.6	10.1	106	101	60-141	5	23	
Dibromochloromethane	ug/L	ND	20	20	19.4	18.5	97	92	56-125	5	23	
Dibromomethane	ug/L	ND	20	20	19.7	19.6	98	98	63-137	2	23	
Dichlorodifluoromethane	ug/L	ND	20	20	20.5	19.2	102	96	40-160	6	24	
Ethylbenzene	ug/L	ND	20	20	21.3	20.5	106	102	65-135	4	25	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	22.4	21.9	112	110	50-149	2	19	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.3	20.4	107	102	64-137	4	27	
m&p-Xylene	ug/L	ND	40	40	43.1	40.9	108	102	63-134	5	25	
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	19.2	100	96	59-143	4	26	
Methylene chloride	ug/L	ND	20	20	20.5	19.7	102	99	52-133	4	23	
n-Butylbenzene	ug/L	ND	20	20	23.2	22.6	116	113	65-143	3	20	
n-Propylbenzene	ug/L	ND	20	20	20.6	19.9	103	99	64-141	3	25	
Naphthalene	ug/L	ND	20	20	18.0	17.2	90	86	48-141	4	29	
o-Xylene	ug/L	ND	20	20	20.8	19.8	104	99	68-131	5	23	
p-Isopropyltoluene	ug/L	ND	20	20	20.0	19.6	100	98	69-137	2	21	
sec-Butylbenzene	ug/L	ND	20	20	21.2	20.4	106	102	69-139	4	20	
Styrene	ug/L	ND	20	20	20.0	19.3	100	96	67-135	4	23	
tert-Butylbenzene	ug/L	ND	20	20	19.9	19.3	99	96	61-129	3	21	
Tetrachloroethene	ug/L	ND	20	20	21.2	20.5	106	102	40-122	4	21	
Toluene	ug/L	ND	20	20	20.2	19.2	101	96	64-128	5	24	
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.7	19.9	104	100	66-150	4	21	
trans-1,3-Dichloropropene	ug/L	ND	10	10	8.7	8.4	87	84	51-116	4	23	
Trichloroethene	ug/L	ND	20	20	20.8	20.0	104	100	68-135	4	21	
Trichlorofluoromethane	ug/L	ND	20	20	22.4	21.3	112	106	54-160	5	23	
Vinyl chloride	ug/L	ND	20	20	22.9	21.7	115	108	45-155	6	22	
Xylene (Total)	ug/L	ND	60	60	63.9	60.7	106	101	65-133	5	25	
1,2-Dichloroethane-d4 (S)	%						99	99	72-127			
4-Bromofluorobenzene (S)	%						90	89	79-121			
Dibromofluoromethane (S)	%						101	102	81-119			
Toluene-d8 (S)	%						100	100	77-120			



### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7077 Analysis Method: EPA 5030B/8260  
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
 Associated Lab Samples: 2512215010, 2512215011, 2512215012, 2512215013, 2512215014, 2512215015, 2512215016, 2512215017,  
 2512215018, 2512215019

METHOD BLANK: 116782 Matrix: Water

Associated Lab Samples: 2512215010, 2512215011, 2512215012, 2512215013, 2512215014, 2512215015, 2512215016, 2512215017,  
 2512215018, 2512215019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/26/12 15:46	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,4-Trimethylbenzene	ug/L	0.11J	1.0	05/26/12 15:46	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/26/12 15:46	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/26/12 15:46	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/26/12 15:46	
2-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 15:46	
2-Hexanone	ug/L	<1.0	5.0	05/26/12 15:46	
4-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 15:46	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/26/12 15:46	
Acetone	ug/L	1.9J	5.0	05/26/12 15:46	
Benzene	ug/L	<0.10	1.0	05/26/12 15:46	
Bromobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Bromochloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Bromodichloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Bromoform	ug/L	<0.10	1.0	05/26/12 15:46	
Bromomethane	ug/L	<0.10	1.0	05/26/12 15:46	
Carbon disulfide	ug/L	<0.10	1.0	05/26/12 15:46	
Carbon tetrachloride	ug/L	<0.10	1.0	05/26/12 15:46	
Chlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Chloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
Chloroform	ug/L	<0.10	1.0	05/26/12 15:46	
Chloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

METHOD BLANK: 116782

Matrix: Water

Associated Lab Samples: 2512215010, 2512215011, 2512215012, 2512215013, 2512215014, 2512215015, 2512215016, 2512215017, 2512215018, 2512215019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
Dibromochloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Dibromomethane	ug/L	<0.10	1.0	05/26/12 15:46	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Ethylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/26/12 15:46	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/26/12 15:46	
m&p-Xylene	ug/L	<0.20	2.0	05/26/12 15:46	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/26/12 15:46	
Methylene chloride	ug/L	2.3J	5.0	05/26/12 15:46	
n-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
n-Propylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Naphthalene	ug/L	<0.10	1.0	05/26/12 15:46	
o-Xylene	ug/L	<0.10	1.0	05/26/12 15:46	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/26/12 15:46	
sec-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Styrene	ug/L	<0.10	1.0	05/26/12 15:46	
tert-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Tetrachloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
Toluene	ug/L	<0.10	1.0	05/26/12 15:46	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
Trichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Vinyl chloride	ug/L	<0.10	1.0	05/26/12 15:46	
Xylene (Total)	ug/L	<0.30	3.0	05/26/12 15:46	
1,2-Dichloroethane-d4 (S)	%	100	72-127	05/26/12 15:46	
4-Bromofluorobenzene (S)	%	105	79-121	05/26/12 15:46	
Dibromofluoromethane (S)	%	101	81-119	05/26/12 15:46	
Toluene-d8 (S)	%	101	77-120	05/26/12 15:46	

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	92	70-122	
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	86	62-133	
1,1,2-Trichloroethane	ug/L	20	18.6	93	68-122	
1,1-Dichloroethane	ug/L	20	18.3	92	70-125	
1,1-Dichloroethene	ug/L	20	18.8	94	69-142	
1,1-Dichloropropene	ug/L	20	19.4	97	67-129	
1,2,3-Trichlorobenzene	ug/L	20	15.6	78	60-132	
1,2,3-Trichloropropane	ug/L	20	18.1	91	65-120	
1,2,4-Trichlorobenzene	ug/L	20	15.8	79	62-127	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	17.9	90	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.5	92	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	18.2	91	65-123	
1,2-Dichlorobenzene	ug/L	20	17.3	86	71-118	
1,2-Dichloroethane	ug/L	20	17.7	89	63-131	
1,2-Dichloroethene (Total)	ug/L	40	37.3	93	73-134	
1,2-Dichloropropane	ug/L	20	18.1	91	70-125	
1,3,5-Trimethylbenzene	ug/L	20	17.4	87	70-123	
1,3-Dichlorobenzene	ug/L	20	17.3	87	72-119	
1,3-Dichloropropane	ug/L	20	18.1	91	69-122	
1,4-Dichlorobenzene	ug/L	20	16.9	84	70-116	
2,2-Dichloropropane	ug/L	20	19.4	97	52-149	
2-Butanone (MEK)	ug/L	40	36.6	92	45-155	
2-Chlorotoluene	ug/L	20	16.7	83	69-119	
2-Hexanone	ug/L	40	36.4	91	50-151	
4-Chlorotoluene	ug/L	20	17.8	89	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.6	89	61-145	
Acetone	ug/L	40	38.0	95	40-160	
Benzene	ug/L	20	16.1	80	66-123	
Bromobenzene	ug/L	20	18.0	90	68-118	
Bromochloromethane	ug/L	20	18.8	94	72-128	
Bromodichloromethane	ug/L	20	18.2	91	68-129	
Bromoform	ug/L	20	17.4	87	54-118	
Bromomethane	ug/L	20	19.5	98	43-151	
Carbon disulfide	ug/L	20	18.8	94	52-142	
Carbon tetrachloride	ug/L	20	19.2	96	67-135	
Chlorobenzene	ug/L	20	17.4	87	72-116	
Chloroethane	ug/L	20	16.9	84	48-139	
Chloroform	ug/L	20	18.4	92	71-124	
Chloromethane	ug/L	20	18.1	91	40-152	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	74-133	
cis-1,3-Dichloropropene	ug/L	10	9.5	95	64-132	
Dibromochloromethane	ug/L	20	18.1	91	60-121	
Dibromomethane	ug/L	20	17.9	90	69-131	
Dichlorodifluoromethane	ug/L	20	18.1	90	40-160	
Ethylbenzene	ug/L	20	18.9	94	67-122	
Hexachloro-1,3-butadiene	ug/L	20	19.1	96	55-139	
Isopropylbenzene (Cumene)	ug/L	20	18.6	93	67-124	
m&p-Xylene	ug/L	40	37.9	95	66-122	
Methyl-tert-butyl ether	ug/L	20	18.1	91	65-138	
Methylene chloride	ug/L	20	20.2	101	58-137	
n-Butylbenzene	ug/L	20	18.9	94	68-129	
n-Propylbenzene	ug/L	20	18.0	90	66-126	
Naphthalene	ug/L	20	13.9	70	59-133	
o-Xylene	ug/L	20	18.6	93	69-123	
p-Isopropyltoluene	ug/L	20	17.1	86	69-127	
sec-Butylbenzene	ug/L	20	18.2	91	68-129	
Styrene	ug/L	20	18.1	91	72-125	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
tert-Butylbenzene	ug/L	20	17.7	88	58-120	
Tetrachloroethene	ug/L	20	18.9	95	40-115	
Toluene	ug/L	20	17.9	89	64-118	
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-134	
trans-1,3-Dichloropropene	ug/L	10	7.6	76	52-115	
Trichloroethene	ug/L	20	18.0	90	69-125	
Trichlorofluoromethane	ug/L	20	19.5	98	57-155	
Vinyl chloride	ug/L	20	19.2	96	53-132	
Xylene (Total)	ug/L	60	56.5	94	68-122	
1,2-Dichloroethane-d4 (S)	%			97	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117574 117575

Parameter	Units	2512090045		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	578	21.2	2890	106	67-132	186	22	D6,E, M1
1,1,1-Trichloroethane	ug/L	ND	20	20	20	793	22.1	3970	110	67-145	189	22	D6,E, M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	267	19.8	1340	99	65-135	172	23	D6,E, M1
1,1,2-Trichloroethane	ug/L	ND	20	20	20	580	20.9	2900	105	67-126	186	22	D6,E, M1
1,1-Dichloroethane	ug/L	ND	20	20	20	782	21.9	3910	110	69-138	189	21	D6,E, M1
1,1-Dichloroethene	ug/L	ND	20	20	20	810	22.2	4050	111	68-160	189	21	D6,E, M1
1,1-Dichloropropene	ug/L	ND	20	20	20	802	22.4	4010	112	68-145	189	22	D6,E, M1
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	196	19.3	978	96	57-131	164	30	D6,M1
1,2,3-Trichloropropane	ug/L	ND	20	20	20	278	21.0	1390	105	61-123	172	24	D6,E, M1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	196	19.8	981	99	58-130	163	24	D6,M1
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	274	20.7	1370	103	60-136	172	24	D6,E, M1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	262	21.3	1310	107	48-127	170	25	D6,E, M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	576	20.9	2880	105	61-127	186	25	D6,E, M1
1,2-Dichlorobenzene	ug/L	ND	20	20	20	271	20.6	1350	103	67-126	172	21	D6,E, M1
1,2-Dichloroethane	ug/L	ND	20	20	20	746	20.5	3730	103	60-138	189	23	D6,E, M1
1,2-Dichloroethene (Total)	ug/L	ND	40	40	40	1570	43.0	3920	108	70-146	189	22	D6,E, M1
1,2-Dichloropropane	ug/L	ND	20	20	20	751	21.1	3760	105	67-138	189	22	D6,E, M1

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Parameter	Units	2512090045		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec							
1,3,5-Trimethylbenzene	ug/L	ND	20	20	272	20.5	1360	103	64-135	172	25	D6,E, M1				
1,3-Dichlorobenzene	ug/L	ND	20	20	270	20.8	1350	104	69-128	171	21	D6,E, M1				
1,3-Dichloropropane	ug/L	ND	20	20	566	20.3	2830	102	65-128	186	22	D6,E, M1				
1,4-Dichlorobenzene	ug/L	ND	20	20	256	20.3	1280	102	66-124	171	28	D6,E, M1				
2,2-Dichloropropane	ug/L	ND	20	20	735	20.1	3680	101	46-160	189	24	D6,E, M1				
2-Butanone (MEK)	ug/L	ND	40	40	1500	41.8	3750	104	40-140	189	25	D6,E, M1				
2-Chlorotoluene	ug/L	ND	20	20	264	20.1	1320	101	67-129	172	20	D6,E, M1				
2-Hexanone	ug/L	ND	40	40	1150	42.5	2870	106	42-141	186	27	D6,E, M1				
4-Chlorotoluene	ug/L	ND	20	20	281	21.2	1400	106	67-133	172	20	D6,E, M1				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	1460	40.5	3650	101	54-151	189	27	D6,E, M1				
Acetone	ug/L	ND	40	40	629	47.7	1570	119	40-155	172	30	D6,E, M1				
Benzene	ug/L	ND	20	20	670	18.8	3350	94	63-138	189	24	D6,E, M1				
Bromobenzene	ug/L	ND	20	20	276	21.4	1380	107	64-127	171	21	D6,E, M1				
Bromochloromethane	ug/L	ND	20	20	765	21.4	3820	107	66-136	189	22	D6,E, M1				
Bromodichloromethane	ug/L	ND	20	20	749	21.2	3740	106	65-138	189	23	D6,E, M1				
Bromoform	ug/L	ND	20	20	356	19.1	1780	96	51-119	180	23	D6,E, M1				
Bromomethane	ug/L	ND	20	20	817	22.7	4080	114	40-158	189	26	D6,E, M1				
Carbon disulfide	ug/L	ND	20	20	806	22.2	4030	111	56-158	189	23	D6,E, M1				
Carbon tetrachloride	ug/L	ND	20	20	833	23.2	4170	116	66-152	189	22	D6,E, M1				
Chlorobenzene	ug/L	ND	20	20	535	20.1	2680	100	68-128	186	27	D6,E, M1				
Chloroethane	ug/L	ND	20	20	691	19.4	3450	97	49-154	189	25	D6,E, M1				
Chloroform	ug/L	ND	20	20	777	21.5	3890	108	69-137	189	21	D6,E, M1				
Chloromethane	ug/L	ND	20	20	825	22.7	4120	113	40-160	189	25	D6,E, M1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	799	21.6	3990	108	69-147	189	21	D6,E, M1				
cis-1,3-Dichloropropene	ug/L	ND	10	10	366	10.5	3660	105	60-141	189	23	D6,E, M1				
Dibromochloromethane	ug/L	ND	20	20	558	20.3	2790	101	56-125	186	23	D6,E, M1				
Dibromomethane	ug/L	ND	20	20	734	20.8	3670	104	63-137	189	23	D6,E, M1				

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Parameter	2512090045		MS		MSD		MS		MSD		Max		Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec	Limits	RPD	
Dichlorodifluoromethane	ug/L	ND	20	20	757	21.3	3790	107	40-160	189	24	D6,E, M1	
Ethylbenzene	ug/L	ND	20	20	599	22.0	3000	110	65-135	186	25	D6,E, M1	
Hexachloro-1,3-butadiene	ug/L	ND	20	20	284	22.5	1420	112	50-149	171	19	D6,E, M1	
Isopropylbenzene (Cumene)	ug/L	ND	20	20	593	21.8	2970	109	64-137	186	27	D6,E, M1	
m&p-Xylene	ug/L	ND	40	40	1190	43.3	2980	108	63-134	186	25	D6,E, M1	
Methyl-tert-butyl ether	ug/L	ND	20	20	741	20.2	3710	101	59-143	189	26	D6,E, M1	
Methylene chloride	ug/L	ND	20	20	791	21.6	3960	108	52-133	189	23	D6,E, M1	
n-Butylbenzene	ug/L	ND	20	20	296	22.8	1480	114	65-143	171	20	D6,E, M1	
n-Propylbenzene	ug/L	ND	20	20	282	21.6	1410	108	64-141	172	25	D6,E, M1	
Naphthalene	ug/L	ND	20	20	147	17.3	736	87	48-141	158	29	D6,M1	
o-Xylene	ug/L	ND	20	20	582	21.3	2910	107	68-131	186	23	D6,E, M1	
p-Isopropyltoluene	ug/L	ND	20	20	263	20.3	1310	101	69-137	171	21	D6,E, M1	
sec-Butylbenzene	ug/L	ND	20	20	285	21.8	1430	109	69-139	172	20	D6,E, M1	
Styrene	ug/L	ND	20	20	547	20.3	2730	101	67-135	186	23	D6,E, M1	
tert-Butylbenzene	ug/L	ND	20	20	277	21.1	1380	106	61-129	172	21	D6,E, M1	
Tetrachloroethene	ug/L	ND	20	20	611	21.9	3060	109	40-122	186	21	D6,E, M1	
Toluene	ug/L	ND	20	20	563	20.7	2810	103	64-128	186	24	D6,E, M1	
trans-1,2-Dichloroethene	ug/L	ND	20	20	769	21.4	3850	107	66-150	189	21	D6,E, M1	
trans-1,3-Dichloropropene	ug/L	ND	10	10	240	9.0	2400	90	51-116	186	23	D6,E, M1	
Trichloroethene	ug/L	ND	20	20	755	21.2	3780	106	68-135	189	21	D6,E, M1	
Trichlorofluoromethane	ug/L	ND	20	20	845	23.5	4230	117	54-160	189	23	D6,E, M1	
Vinyl chloride	ug/L	ND	20	20	834	23.9	4170	119	45-155	189	22	D6,E, M1	
Xylene (Total)	ug/L	ND	60	60	1770	64.6	2950	108	65-133	186	25	D6,E, M1	
1,2-Dichloroethane-d4 (S)	%						97	99	72-127				
4-Bromofluorobenzene (S)	%						56	90	79-121			IS,S0	
Dibromofluoromethane (S)	%						98	102	81-119				
Toluene-d8 (S)	%						87	101	77-120				

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7069

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 2512215036, 2512215042

METHOD BLANK: 116605

Matrix: Solid

Associated Lab Samples: 2512215036, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1,1-Trichloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1,2,2-Tetrachloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1,2-Trichloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1,2-Trichlorotrifluoroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1-Dichloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1-Dichloroethene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,1-Dichloropropene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2,3-Trichlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2,3-Trichloropropane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2,4-Trichlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2,4-Trimethylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2-Dibromo-3-chloropropane	ug/kg	<2.5	5.0	05/25/12 10:55	
1,2-Dibromoethane (EDB)	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2-Dichlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2-Dichloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,2-Dichloroethene (Total)	ug/kg	<3.0	6.0	05/25/12 10:55	
1,2-Dichloropropane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,3,5-Trimethylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,3-Dichlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
1,3-Dichloropropane	ug/kg	<1.5	3.0	05/25/12 10:55	
1,4-Dichlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
2,2-Dichloropropane	ug/kg	<1.5	3.0	05/25/12 10:55	
2-Butanone (MEK)	ug/kg	<5.0	10.0	05/25/12 10:55	
2-Chlorotoluene	ug/kg	<1.5	3.0	05/25/12 10:55	
2-Hexanone	ug/kg	<5.0	10.0	05/25/12 10:55	
4-Chlorotoluene	ug/kg	<1.5	3.0	05/25/12 10:55	
4-Methyl-2-pentanone (MIBK)	ug/kg	<5.0	10.0	05/25/12 10:55	
Acetone	ug/kg	<5.0	10.0	05/25/12 10:55	
Benzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Bromobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Bromochloromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Bromodichloromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Bromoform	ug/kg	<1.5	3.0	05/25/12 10:55	
Bromomethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Carbon disulfide	ug/kg	<1.5	3.0	05/25/12 10:55	
Carbon tetrachloride	ug/kg	<1.5	3.0	05/25/12 10:55	
Chlorobenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Chloroethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Chloroform	ug/kg	<1.5	3.0	05/25/12 10:55	
Chloromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
cis-1,2-Dichloroethene	ug/kg	<1.5	3.0	05/25/12 10:55	
cis-1,3-Dichloropropene	ug/kg	<1.5	3.0	05/25/12 10:55	

Date: 06/12/2012 11:25 AM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

METHOD BLANK: 116605

Matrix: Solid

Associated Lab Samples: 2512215036, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Dibromomethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Dichlorodifluoromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Ethylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Hexachloro-1,3-butadiene	ug/kg	<1.5	3.0	05/25/12 10:55	
Isopropylbenzene (Cumene)	ug/kg	<1.5	3.0	05/25/12 10:55	
m&p-Xylene	ug/kg	<3.0	6.0	05/25/12 10:55	
Methyl-tert-butyl ether	ug/kg	<1.5	3.0	05/25/12 10:55	
Methylene chloride	ug/kg	<5.0	10.0	05/25/12 10:55	
n-Butylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
n-Propylbenzene	ug/kg	2.0J	3.0	05/25/12 10:55	
Naphthalene	ug/kg	<1.5	3.0	05/25/12 10:55	
o-Xylene	ug/kg	<1.5	3.0	05/25/12 10:55	
p-Isopropyltoluene	ug/kg	<1.5	3.0	05/25/12 10:55	
sec-Butylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Styrene	ug/kg	<1.5	3.0	05/25/12 10:55	
tert-Amylmethyl ether	ug/kg	<1.5	3.0	05/25/12 10:55	
tert-Butylbenzene	ug/kg	<1.5	3.0	05/25/12 10:55	
Tetrachloroethene	ug/kg	<1.5	3.0	05/25/12 10:55	
Toluene	ug/kg	<1.5	3.0	05/25/12 10:55	
trans-1,2-Dichloroethene	ug/kg	<1.5	3.0	05/25/12 10:55	
trans-1,3-Dichloropropene	ug/kg	<1.5	3.0	05/25/12 10:55	
Trichloroethene	ug/kg	<1.5	3.0	05/25/12 10:55	
Trichlorofluoromethane	ug/kg	<1.5	3.0	05/25/12 10:55	
Vinyl chloride	ug/kg	<1.5	3.0	05/25/12 10:55	
Xylene (Total)	ug/kg	<4.5	9.0	05/25/12 10:55	
1,2-Dichloroethane-d4 (S)	%	102	68-141	05/25/12 10:55	
4-Bromofluorobenzene (S)	%	108	68-141	05/25/12 10:55	
Dibromofluoromethane (S)	%	96	74-126	05/25/12 10:55	
Toluene-d8 (S)	%	98	71-130	05/25/12 10:55	

LABORATORY CONTROL SAMPLE & LCSD: 116606

116945

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	20	18.3	16.3	91	82	75-126	11	34	
1,1,1-Trichloroethane	ug/kg	20	18.6	16.0	93	80	65-147	15	37	
1,1,2,2-Tetrachloroethane	ug/kg	20	20.1	18.7	100	93	65-129	7	39	
1,1,2-Trichloroethane	ug/kg	20	19.8	18.9	99	94	71-125	5	29	
1,1,2-Trichlorotrifluoroethane	ug/kg	20	20.1	15.6	101	78	53-160	25	40	
1,1-Dichloroethane	ug/kg	20	20.5	17.5	102	88	71-136	16	37	
1,1-Dichloroethene	ug/kg	20	20.5	16.5	102	83	56-160	22	40	
1,1-Dichloropropene	ug/kg	20	19.0	16.4	95	82	60-145	15	37	
1,2,3-Trichlorobenzene	ug/kg	20	17.5	16.2	88	81	69-124	8	40	
1,2,3-Trichloropropane	ug/kg	20	20.4	19.6	102	98	71-119	4	35	
1,2,4-Trichlorobenzene	ug/kg	20	18.7	17.0	94	85	69-127	10	32	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE & LCSD: 116606		116945								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	20	18.6	16.8	93	84	69-127	10	40	
1,2-Dibromo-3-chloropropane	ug/kg	20	16.2	15.4	81	77	55-132	5	40	
1,2-Dibromoethane (EDB)	ug/kg	20	18.9	17.6	95	88	73-125	7	38	
1,2-Dichlorobenzene	ug/kg	20	18.5	17.1	93	85	77-118	8	34	
1,2-Dichloroethane	ug/kg	20	20.8	18.9	104	95	67-137	9	32	
1,2-Dichloroethene (Total)	ug/kg	40	40.3	34.4	101	86	71-141	16	39	
1,2-Dichloropropane	ug/kg	20	21.0	18.8	105	94	72-133	11	32	
1,3,5-Trimethylbenzene	ug/kg	20	18.7	16.8	93	84	70-129	11	40	
1,3-Dichlorobenzene	ug/kg	20	17.5	16.3	88	81	76-122	7	33	
1,3-Dichloropropane	ug/kg	20	20.4	19.1	102	96	72-125	6	27	
1,4-Dichlorobenzene	ug/kg	20	17.3	15.4	86	77	76-119	11	31	
2,2-Dichloropropane	ug/kg	20	14.9	12.8	74	64	57-156	15	34	
2-Butanone (MEK)	ug/kg	40	45.5	37.6	114	94	40-160	19	40	
2-Chlorotoluene	ug/kg	20	17.9	16.2	90	81	70-123	10	40	
2-Hexanone	ug/kg	40	36.2	32.3	90	81	40-160	11	33	
4-Chlorotoluene	ug/kg	20	18.8	17.1	94	86	74-127	10	37	
4-Methyl-2-pentanone (MIBK)	ug/kg	40	34.6	30.1	87	75	58-143	14	35	
Acetone	ug/kg	40	42.1	38.7	105	97	40-160	8	40	
Benzene	ug/kg	20	17.0	15.2	85	76	67-133	11	36	
Bromobenzene	ug/kg	20	20.0	18.9	100	95	77-121	5	33	
Bromochloromethane	ug/kg	20	20.9	18.3	104	92	73-132	13	38	
Bromodichloromethane	ug/kg	20	19.8	17.5	99	87	71-130	12	29	
Bromoform	ug/kg	20	15.8	14.5	79	72	65-127	9	31	
Bromomethane	ug/kg	20	22.8	19.9	114	99	41-160	13	31	
Carbon disulfide	ug/kg	20	19.2	15.3	96	77	40-160	23	38	
Carbon tetrachloride	ug/kg	20	18.9	15.4	94	77	59-157	20	36	
Chlorobenzene	ug/kg	20	18.6	17.0	93	85	78-123	9	31	
Chloroethane	ug/kg	20	19.5	16.3	97	81	54-153	18	40	
Chloroform	ug/kg	20	20.2	18.0	101	90	74-132	12	36	
Chloromethane	ug/kg	20	19.7	16.5	98	83	40-149	17	40	
cis-1,2-Dichloroethene	ug/kg	20	20.8	18.1	104	91	73-137	14	36	
cis-1,3-Dichloropropene	ug/kg	10	9.4	8.2	94	82	63-140	13	37	
Dibromochloromethane	ug/kg	20	17.2	14.9	86	74	71-122	14	31	
Dibromomethane	ug/kg	20	19.6	19.2	98	96	73-131	2	28	
Dichlorodifluoromethane	ug/kg	20	18.8	15.6	94	78	40-160	18	40	
Ethylbenzene	ug/kg	20	18.9	17.2	95	86	70-124	10	39	
Hexachloro-1,3-butadiene	ug/kg	20	16.4	14.2	82	71	59-141	15	40	
Isopropylbenzene (Cumene)	ug/kg	20	18.8	16.7	94	84	72-131	12	39	
m&p-Xylene	ug/kg	40	39.8	35.4	100	88	66-129	12	39	
Methyl-tert-butyl ether	ug/kg	20	19.6	17.5	98	88	69-136	11	40	
Methylene chloride	ug/kg	20	22.1	19.5	111	97	53-160	13	30	
n-Butylbenzene	ug/kg	20	17.9	16.0	90	80	65-134	11	39	
n-Propylbenzene	ug/kg	20	16.5	14.5	83	73	62-135	13	38	
Naphthalene	ug/kg	20	18.4	16.9	92	85	63-129	9	38	
o-Xylene	ug/kg	20	18.7	17.0	93	85	70-125	9	39	
p-Isopropyltoluene	ug/kg	20	17.7	15.8	89	79	68-130	11	40	
sec-Butylbenzene	ug/kg	20	16.3	14.5	82	73	61-137	12	40	
Styrene	ug/kg	20	18.2	16.1	91	80	77-124	13	34	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE & LCSD:		116606	116945							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
tert-Amylmethyl ether	ug/kg	20	16.8	15.7	84	79	55-150	7	39	
tert-Butylbenzene	ug/kg	20	18.6	16.5	93	83	69-132	12	40	
Tetrachloroethene	ug/kg	20	17.9	16.1	89	80	52-148	11	34	
Toluene	ug/kg	20	18.1	16.2	91	81	67-129	11	38	
trans-1,2-Dichloroethene	ug/kg	20	19.4	16.3	97	81	69-146	18	40	
trans-1,3-Dichloropropene	ug/kg	10	8.4	7.6	84	76	63-133	10	36	
Trichloroethene	ug/kg	20	18.9	16.8	94	84	69-137	11	33	
Trichlorofluoromethane	ug/kg	20	19.2	16.0	96	80	50-156	18	40	
Vinyl chloride	ug/kg	20	19.6	15.8	98	79	41-156	21	35	
Xylene (Total)	ug/kg	60	58.5	52.4	97	87	68-127	11	39	
1,2-Dichloroethane-d4 (S)	%				109	102	68-141			
4-Bromofluorobenzene (S)	%				108	108	68-141			
Dibromofluoromethane (S)	%				108	101	74-126			
Toluene-d8 (S)	%				100	100	71-130			

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7029 Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003

METHOD BLANK: 115949 Matrix: Water

Associated Lab Samples: 2512215001, 2512215002, 2512215003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/21/12 13:13	
4-Bromofluorobenzene (S)	%	107	50-150	05/21/12 13:13	

LABORATORY CONTROL SAMPLE: 115950

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	609	122	65-139	
4-Bromofluorobenzene (S)	%			101	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116244 116245

Parameter	Units	2512275001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
										RPD	RPD	
Gasoline Range Organics	ug/L	ND	500	500	681	666	134	131	48-147	2	30	
4-Bromofluorobenzene (S)	%						102	101	50-150			

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: MSV/7030

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

METHOD BLANK: 115951

Matrix: Water

Associated Lab Samples: 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/22/12 00:00	
4-Bromofluorobenzene (S)	%	108	50-150	05/22/12 00:00	

LABORATORY CONTROL SAMPLE: 115952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	438	88	65-139	
4-Bromofluorobenzene (S)	%			104	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116255

116256

Parameter	Units	2512276001		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Gasoline Range Organics	ug/L	55.4	500	500	534	497	96	88	48-147	7	30		
4-Bromofluorobenzene (S)	%						105	103	50-150				

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Project No.: 2512215

QC Batch: OEXT/5535 Analysis Method: EPA 8082  
 QC Batch Method: EPA 3546 Analysis Description: 8082 GCS PCB  
 Associated Lab Samples: 2512215036, 2512215042

METHOD BLANK: 115916 Matrix: Solid

Associated Lab Samples: 2512215036, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1221 (Aroclor 1221)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1232 (Aroclor 1232)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1242 (Aroclor 1242)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1248 (Aroclor 1248)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1254 (Aroclor 1254)	ug/kg	<17.0	17.0	05/24/12 16:33	
PCB-1260 (Aroclor 1260)	ug/kg	<17.0	17.0	05/24/12 16:33	
Decachlorobiphenyl (S)	%	105	20-139	05/24/12 16:33	
Tetrachloro-m-xylene (S)	%	102	30-134	05/24/12 16:33	

LABORATORY CONTROL SAMPLE: 115917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/kg	167	171	102	57-118	
PCB-1260 (Aroclor 1260)	ug/kg	167	198	119	60-138	
Decachlorobiphenyl (S)	%			108	20-139	
Tetrachloro-m-xylene (S)	%			108	30-134	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115918 115919

Parameter	Units	2512215020		115919		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
PCB-1016 (Aroclor 1016)	ug/kg				184	172			7	24	
PCB-1260 (Aroclor 1260)	ug/kg				210	196			7	28	
Decachlorobiphenyl (S)	%						101	92		20-139	
Tetrachloro-m-xylene (S)	%						104	92		30-134	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Project No.: 2512215

QC Batch: OEXT/5529

Analysis Method: EPA 8082

QC Batch Method: EPA 3510

Analysis Description: 8082 GCS PCB

Associated Lab Samples: 2512215005, 2512215009

METHOD BLANK: 115876

Matrix: Water

Associated Lab Samples: 2512215005, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1221 (Aroclor 1221)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1232 (Aroclor 1232)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1242 (Aroclor 1242)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1248 (Aroclor 1248)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1254 (Aroclor 1254)	ug/L	<0.50	0.50	05/21/12 20:32	
PCB-1260 (Aroclor 1260)	ug/L	<0.50	0.50	05/21/12 20:32	
Decachlorobiphenyl (S)	%	61	17-122	05/21/12 20:32	
Tetrachloro-m-xylene (S)	%	84	32-117	05/21/12 20:32	

LABORATORY CONTROL SAMPLE: 115877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
PCB-1016 (Aroclor 1016)	ug/L	5	5.0	99	61-110	
PCB-1260 (Aroclor 1260)	ug/L	5	5.5	110	62-116	
Decachlorobiphenyl (S)	%			67	17-122	
Tetrachloro-m-xylene (S)	%			96	32-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115878

115879

Parameter	Units	2512215001		2512215001		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
PCB-1016 (Aroclor 1016)	ug/L			9.6	10.4				7	30	
PCB-1260 (Aroclor 1260)	ug/L			11.1	12.3				10	30	
Decachlorobiphenyl (S)	%					84	92	17-122			
Tetrachloro-m-xylene (S)	%					94	92	32-117			

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: OEXT/5534

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270/3546 MSSV PAH by SIM

Associated Lab Samples: 2512215036, 2512215042

METHOD BLANK: 115912

Matrix: Solid

Associated Lab Samples: 2512215036, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<6.7	6.7	05/23/12 22:30	
2-Methylnaphthalene	ug/kg	<6.7	6.7	05/23/12 22:30	
Acenaphthene	ug/kg	<6.7	6.7	05/23/12 22:30	
Acenaphthylene	ug/kg	<6.7	6.7	05/23/12 22:30	
Anthracene	ug/kg	<6.7	6.7	05/23/12 22:30	
Benzo(a)anthracene	ug/kg	<6.7	6.7	05/23/12 22:30	
Benzo(a)pyrene	ug/kg	<6.7	6.7	05/23/12 22:30	
Benzo(b)fluoranthene	ug/kg	<6.7	6.7	05/23/12 22:30	
Benzo(g,h,i)perylene	ug/kg	<6.7	6.7	05/23/12 22:30	
Benzo(k)fluoranthene	ug/kg	<6.7	6.7	05/23/12 22:30	
Chrysene	ug/kg	<6.7	6.7	05/23/12 22:30	
Dibenz(a,h)anthracene	ug/kg	<6.7	6.7	05/23/12 22:30	
Fluoranthene	ug/kg	<6.7	6.7	05/23/12 22:30	
Fluorene	ug/kg	<6.7	6.7	05/23/12 22:30	
Indeno(1,2,3-cd)pyrene	ug/kg	<6.7	6.7	05/23/12 22:30	
Naphthalene	ug/kg	<6.7	6.7	05/23/12 22:30	
Phenanthrene	ug/kg	<6.7	6.7	05/23/12 22:30	
Pyrene	ug/kg	<6.7	6.7	05/23/12 22:30	
2-Fluorobiphenyl (S)	%	84	27-118	05/23/12 22:30	
Terphenyl-d14 (S)	%	98	28-125	05/23/12 22:30	

LABORATORY CONTROL SAMPLE: 115913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	133	110	82	39-110	
2-Methylnaphthalene	ug/kg	133	122	92	39-110	
Acenaphthene	ug/kg	133	114	85	39-111	
Acenaphthylene	ug/kg	133	116	87	37-110	
Anthracene	ug/kg	133	113	85	40-113	
Benzo(a)anthracene	ug/kg	133	136	102	42-122	
Benzo(a)pyrene	ug/kg	133	136	102	44-132	
Benzo(b)fluoranthene	ug/kg	133	137	103	40-124	
Benzo(g,h,i)perylene	ug/kg	133	108	81	39-122	
Benzo(k)fluoranthene	ug/kg	133	102	77	44-123	
Chrysene	ug/kg	133	119	89	42-120	
Dibenz(a,h)anthracene	ug/kg	133	124	93	40-122	
Fluoranthene	ug/kg	133	117	87	42-116	
Fluorene	ug/kg	133	124	93	41-112	
Indeno(1,2,3-cd)pyrene	ug/kg	133	102	76	39-124	
Naphthalene	ug/kg	133	110	82	36-110	
Phenanthrene	ug/kg	133	126	94	42-115	

Date: 06/12/2012 11:25 AM

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 115913

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	133	109	82	44-121	
2-Fluorobiphenyl (S)	%			86	27-118	
Terphenyl-d14 (S)	%			92	28-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115914 115915

Parameter	Units	2512215020		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec						
1-Methylnaphthalene	ug/kg					130	111						16	33	
2-Methylnaphthalene	ug/kg					141	122						15	31	
Acenaphthene	ug/kg					132	111						17	33	
Acenaphthylene	ug/kg					134	117						14	32	
Anthracene	ug/kg					124	109						13	31	
Benzo(a)anthracene	ug/kg					163	142						14	38	
Benzo(a)pyrene	ug/kg					158	139						12	38	
Benzo(b)fluoranthene	ug/kg					158	141						11	38	
Benzo(g,h,i)perylene	ug/kg					126	111						13	39	
Benzo(k)fluoranthene	ug/kg					123	103						17	38	
Chrysene	ug/kg					139	117						17	38	
Dibenz(a,h)anthracene	ug/kg					145	127						13	39	
Fluoranthene	ug/kg					131	113						14	38	
Fluorene	ug/kg					143	124						15	35	
Indeno(1,2,3-cd)pyrene	ug/kg					120	104						15	39	
Naphthalene	ug/kg					127	110						14	32	
Phenanthrene	ug/kg					144	127						13	37	
Pyrene	ug/kg					127	108						17	39	
2-Fluorobiphenyl (S)	%							92	80	27-118					
Terphenyl-d14 (S)	%							97	85	28-125					



### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: OEXT/5526 Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3510 Analysis Description: 8270 PAH SIM

Associated Lab Samples: 2512215005, 2512215009

METHOD BLANK: 115668 Matrix: Water

Associated Lab Samples: 2512215005, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.050	0.10	05/22/12 16:45	
2-Methylnaphthalene	ug/L	<0.050	0.10	05/22/12 16:45	
Acenaphthene	ug/L	<0.050	0.10	05/22/12 16:45	
Acenaphthylene	ug/L	<0.050	0.10	05/22/12 16:45	
Anthracene	ug/L	<0.050	0.10	05/22/12 16:45	
Benzo(a)anthracene	ug/L	<0.050	0.10	05/22/12 16:45	
Benzo(a)pyrene	ug/L	<0.050	0.10	05/22/12 16:45	
Benzo(b)fluoranthene	ug/L	<0.050	0.10	05/22/12 16:45	
Benzo(g,h,i)perylene	ug/L	<0.050	0.10	05/22/12 16:45	
Benzo(k)fluoranthene	ug/L	<0.050	0.10	05/22/12 16:45	
Chrysene	ug/L	<0.050	0.10	05/22/12 16:45	
Dibenz(a,h)anthracene	ug/L	<0.050	0.10	05/22/12 16:45	
Fluoranthene	ug/L	<0.050	0.10	05/22/12 16:45	
Fluorene	ug/L	<0.050	0.10	05/22/12 16:45	
Indeno(1,2,3-cd)pyrene	ug/L	<0.050	0.10	05/22/12 16:45	
Naphthalene	ug/L	<0.050	0.10	05/22/12 16:45	
Phenanthrene	ug/L	<0.050	0.10	05/22/12 16:45	
Pyrene	ug/L	<0.050	0.10	05/22/12 16:45	
2-Fluorobiphenyl (S)	%	68	21-110	05/22/12 16:45	
Terphenyl-d14 (S)	%	88	32-123	05/22/12 16:45	

LABORATORY CONTROL SAMPLE: 115669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	4	2.9	72	26-110	
2-Methylnaphthalene	ug/L	4	3.2	80	25-110	
Acenaphthene	ug/L	4	3.0	75	35-110	
Acenaphthylene	ug/L	4	3.1	77	35-110	
Anthracene	ug/L	4	2.9	73	37-110	
Benzo(a)anthracene	ug/L	4	4.0	99	51-114	
Benzo(a)pyrene	ug/L	4	3.5	89	48-125	
Benzo(b)fluoranthene	ug/L	4	3.9	97	51-116	
Benzo(g,h,i)perylene	ug/L	4	2.8	71	46-115	
Benzo(k)fluoranthene	ug/L	4	2.7	67	49-124	
Chrysene	ug/L	4	3.4	84	50-115	
Dibenz(a,h)anthracene	ug/L	4	3.0	75	48-114	
Fluoranthene	ug/L	4	3.2	81	50-111	
Fluorene	ug/L	4	3.4	84	39-110	
Indeno(1,2,3-cd)pyrene	ug/L	4	3.2	80	48-116	
Naphthalene	ug/L	4	3.0	74	27-110	
Phenanthrene	ug/L	4	3.6	90	50-110	

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

LABORATORY CONTROL SAMPLE: 115669

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/L	4	3.1	78	51-117	
2-Fluorobiphenyl (S)	%			81	21-110	
Terphenyl-d14 (S)	%			92	32-123	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115670 115671

Parameter	Units	2512215001		MS	MSD	MS	MSD	MS	MSD	% Rec	Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result									
1-Methylnaphthalene	ug/L					4.6	6.2					30	37	
2-Methylnaphthalene	ug/L					5.1	6.7					28	33	
Acenaphthene	ug/L					5.0	6.3					24	33	
Acenaphthylene	ug/L					5.0	6.5					26	32	
Anthracene	ug/L					5.6	6.4					14	27	
Benzo(a)anthracene	ug/L					7.2	8.1					11	24	
Benzo(a)pyrene	ug/L					6.9	7.5					8	26	
Benzo(b)fluoranthene	ug/L					7.4	7.9					7	31	
Benzo(g,h,i)perylene	ug/L					5.7	6.3					9	32	
Benzo(k)fluoranthene	ug/L					5.3	5.8					9	28	
Chrysene	ug/L					6.1	7.0					14	26	
Dibenz(a,h)anthracene	ug/L					6.5	7.1					9	31	
Fluoranthene	ug/L					6.2	6.9					12	25	
Fluorene	ug/L					5.6	7.0					22	33	
Indeno(1,2,3-cd)pyrene	ug/L					6.6	7.3					11	32	
Naphthalene	ug/L					4.7	6.1					27	29	
Phenanthrene	ug/L					6.5	7.6					15	27	
Pyrene	ug/L					5.7	6.5					14	25	
2-Fluorobiphenyl (S)	%									65	78	21-110		
Terphenyl-d14 (S)	%									85	90	32-123		

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: OEXT/5528 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3546 Analysis Description: NWTPH-Dx GCS  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

METHOD BLANK: 115873 Matrix: Solid  
 Associated Lab Samples: 2512215020, 2512215024, 2512215026, 2512215029, 2512215036, 2512215040, 2512215042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	<8.0	16.0	05/22/12 03:03	
Motor Oil Range SG	mg/kg	<32.0	64.0	05/22/12 03:03	
n-Octacosane (S) SG	%	99	50-150	05/22/12 03:03	
o-Terphenyl (S) SG	%	102	50-150	05/22/12 03:03	

LABORATORY CONTROL SAMPLE: 115874

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	400	425	106	69-113	
Motor Oil Range SG	mg/kg	400	353	88	75-119	
n-Octacosane (S) SG	%			100	50-150	
o-Terphenyl (S) SG	%			102	50-150	

SAMPLE DUPLICATE: 115875

Parameter	Units	2512215020 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/kg	<8.7	<8.8		50	
Motor Oil Range SG	mg/kg	<35.0	<35.1		48	
n-Octacosane (S) SG	%	98	96	2		
o-Terphenyl (S) SG	%	102	100	2		

### QUALITY CONTROL DATA

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: OEXT/5557 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

METHOD BLANK: 116286 Matrix: Water  
 Associated Lab Samples: 2512215001, 2512215002, 2512215003, 2512215004, 2512215005, 2512215006, 2512215007, 2512215008, 2512215009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	<0.040	0.080	05/24/12 19:28	
Motor Oil Range SG	mg/L	<0.20	0.40	05/24/12 19:28	
n-Octacosane (S) SG	%	88	50-150	05/24/12 19:28	
o-Terphenyl (S) SG	%	82	50-150	05/24/12 19:28	

LABORATORY CONTROL SAMPLE: 116287

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	3.5	88	59-114	
Motor Oil Range SG	mg/L	4	3.9	97	69-124	
n-Octacosane (S) SG	%			93	50-150	
o-Terphenyl (S) SG	%			87	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116288 116289

Parameter	Units	2512090031 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Diesel Range SG	mg/L	ND	4.2	4.1	3.3	3.6	77	86	56-112	9	39	
Motor Oil Range SG	mg/L	ND	4.2	4.1	3.9	4.1	91	100	72-119	7	38	
n-Octacosane (S) SG	%						89	99	50-150			
o-Terphenyl (S) SG	%						83	92	50-150			

SAMPLE DUPLICATE: 116290

Parameter	Units	2512215001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	<0.043	<0.044		39	
Motor Oil Range SG	mg/L	<0.22	<0.22		38	
n-Octacosane (S) SG	%	107	99	4		
o-Terphenyl (S) SG	%	98	91	4		

SAMPLE DUPLICATE: 116291

Parameter	Units	2512215009 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	<0.042	<0.044		39	
Motor Oil Range SG	mg/L	<0.21	<0.22		38	

**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

SAMPLE DUPLICATE: 116291

Parameter	Units	2512215009 Result	Dup Result	RPD	Max RPD	Qualifiers
n-Octacosane (S) SG	%	101	102	7		
o-Terphenyl (S) SG	%	94	95	7		



**QUALITY CONTROL DATA**

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

QC Batch: PMST/2052

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 2512215040, 2512215042

SAMPLE DUPLICATE: 116051

Parameter	Units	2512215040 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	30.7	30.9	.7	30	

## QUALIFIERS

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-S Pace Analytical Services - Seattle

### BATCH QUALIFIERS

Batch: MSV/7069

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

IS The internal standard response is below criteria. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

S0 Surrogate recovery outside laboratory control limits.



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512215036	DP07-2	EPA 3546	OEXT/5535	EPA 8082	GCSV/3548
2512215042	DP09-2	EPA 3546	OEXT/5535	EPA 8082	GCSV/3548
2512215005	DP07S-051512	EPA 3510	OEXT/5529	EPA 8082	GCSV/3543
2512215009	DUP1H2O-051512	EPA 3510	OEXT/5529	EPA 8082	GCSV/3543
2512215020	DP01-1.5	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215024	DP03-10	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215026	DP04-3	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215029	DP06-3	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215036	DP07-2	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215040	DP08-10	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215042	DP09-2	EPA 3546	OEXT/5528	NWTPH-Dx	GCSV/3545
2512215001	DP01-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215002	DP03-051612	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215003	DP04-051612	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215004	DP06-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215005	DP07S-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215006	DP07D-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215007	DP08-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215008	DP09-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215009	DUP1H2O-051512	EPA 3510	OEXT/5557	NWTPH-Dx	GCSV/3558
2512215020	DP01-1.5	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215024	DP03-10	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215026	DP04-3	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215029	DP06-3	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215036	DP07-2	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215040	DP08-10	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215042	DP09-2	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512215020	DP01-1.5	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215024	DP03-10	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215026	DP04-3	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215029	DP06-3	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215036	DP07-2	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215040	DP08-10	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215042	DP09-2	EPA 6020	ICPM/32617	EPA 6020	ICPM/12946
2512215001	DP01-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215002	DP03-051612	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215003	DP04-051612	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215004	DP06-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215005	DP07S-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215006	DP07D-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215007	DP08-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215008	DP09-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215009	DUP1H2O-051512	EPA 6020	ICPM/32621	EPA 6020	ICPM/12920
2512215005	DP07S-051512	EPA 6020	ICPM/32664	EPA 6020	ICPM/12914
2512215006	DP07D-051512	EPA 6020	ICPM/32664	EPA 6020	ICPM/12914

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512215009	DUP1H2O-051512	EPA 6020	ICPM/32664	EPA 6020	ICPM/12914
2512215001	DP01-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215002	DP03-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215003	DP04-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215004	DP06-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215005	DP07S-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215006	DP07D-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215007	DP08-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215008	DP09-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215009	DUP1H2O-051512	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512215005	DP07S-051512	EPA 7470	MERP/1690	EPA 7470	MERC/1703
2512215006	DP07D-051512	EPA 7470	MERP/1690	EPA 7470	MERC/1703
2512215009	DUP1H2O-051512	EPA 7470	MERP/1690	EPA 7470	MERC/1703
2512215020	DP01-1.5	EPA 7471	MERP/1692	EPA 7471	MERC/1705
2512215024	DP03-10	EPA 7471	MERP/1692	EPA 7471	MERC/1705
2512215026	DP04-3	EPA 7471	MERP/1692	EPA 7471	MERC/1705
2512215029	DP06-3	EPA 7471	MERP/1692	EPA 7471	MERC/1705
2512215036	DP07-2	EPA 7471	MERP/1692	EPA 7471	MERC/1705
2512215040	DP08-10	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512215042	DP09-2	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512215036	DP07-2	EPA 3546	OEXT/5534	EPA 8270 by SIM	MSSV/2094
2512215042	DP09-2	EPA 3546	OEXT/5534	EPA 8270 by SIM	MSSV/2094
2512215005	DP07S-051512	EPA 3510	OEXT/5526	EPA 8270 by SIM	MSSV/2091
2512215009	DUP1H2O-051512	EPA 3510	OEXT/5526	EPA 8270 by SIM	MSSV/2091
2512215005	DP07S-051512	EPA 5030B/8260	MSV/7028		
2512215008	DP09-051512	EPA 5030B/8260	MSV/7028		
2512215009	DUP1H2O-051512	EPA 5030B/8260	MSV/7070		
2512215010	TB1-051612	EPA 5030B/8260	MSV/7077		
2512215011	TB2-051612	EPA 5030B/8260	MSV/7077		
2512215012	TB3-051612	EPA 5030B/8260	MSV/7077		
2512215013	TB4-051612	EPA 5030B/8260	MSV/7077		
2512215014	TB5-051612	EPA 5030B/8260	MSV/7077		
2512215015	TB6-051612	EPA 5030B/8260	MSV/7077		
2512215016	TB7-051612	EPA 5030B/8260	MSV/7077		
2512215017	TB8-051612	EPA 5030B/8260	MSV/7077		
2512215018	TB9-051612	EPA 5030B/8260	MSV/7077		
2512215019	TB10-051612	EPA 5030B/8260	MSV/7077		
2512215036	DP07-2	EPA 8260	MSV/7069		
2512215042	DP09-2	EPA 8260	MSV/7069		
2512215001	DP01-051512	NWTPH-Gx	MSV/7029		
2512215002	DP03-051612	NWTPH-Gx	MSV/7029		
2512215003	DP04-051612	NWTPH-Gx	MSV/7029		
2512215004	DP06-051512	NWTPH-Gx	MSV/7030		

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square - 2787-073-00

Pace Project No.: 2512215

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512215005	DP07S-051512	NWTPH-Gx	MSV/7030		
2512215006	DP07D-051512	NWTPH-Gx	MSV/7030		
2512215007	DP08-051512	NWTPH-Gx	MSV/7030		
2512215008	DP09-051512	NWTPH-Gx	MSV/7030		
2512215009	DUP1H2O-051512	NWTPH-Gx	MSV/7030		
2512215020	DP01-1.5	ASTM D2974-87	PMST/2051		
2512215024	DP03-10	ASTM D2974-87	PMST/2051		
2512215026	DP04-3	ASTM D2974-87	PMST/2051		
2512215029	DP06-3	ASTM D2974-87	PMST/2051		
2512215036	DP07-2	ASTM D2974-87	PMST/2051		
2512215040	DP08-10	ASTM D2974-87	PMST/2052		
2512215042	DP09-2	ASTM D2974-87	PMST/2052		

June 14, 2012

Joey Hickey  
GeoEngineers  
15055 SW Sequoia Parkway  
Suite 140  
Portland, OR 97224

RE: Project: Heritage Square  
Pace Project No.: 2512228

Dear Joey Hickey:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Dan Gossett

dan.gossett@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Heritage Square

Pace Project No.: 2512228

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### Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alaska Certification #: UST-078

Alaska Certification #MN00064

Arizona Certification #: AZ-0014

Arkansas Certification #: 88-0680

California Certification #: 01155CA

EPA Region 8 Certification #: Pace

Florida/NELAP Certification #: E87605

Georgia Certification #: 959

Idaho Certification #: MN00064

Illinois Certification #: 200011

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Kansas Certification #: E-10167

Louisiana Certification #: 03086

Louisiana Certification #: LA080009

Maine Certification #: 2007029

Maryland Certification #: 322

Michigan DEQ Certification #: 9909

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North Dakota Certification #: R-036

North Dakota Certification #: R-036A

Ohio VAP Certification #: CL101

Oklahoma Certification #: D9921

Oklahoma Certification #: 9507

Oregon Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification

Tennessee Certification #: 02818

Texas Certification #: T104704192

Washington Certification #: C754

Wisconsin Certification #: 999407970

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### Washington Certification IDs

940 South Harney Street, Seattle, WA 98108

Alaska CS Certification #: UST-025

Arizona Certification #: AZ0770

California Certification #: 01153CA

Florida/NELAP Certification #: E87617

Oregon Certification #: WA200007

Washington Certification #: C555

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## REPORT OF LABORATORY ANALYSIS

## SAMPLE SUMMARY

Project: Heritage Square

Pace Project No.: 2512228

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2512228001	DP2S-051612	Water	05/16/12 11:15	05/18/12 15:30
2512228002	DP2D-051612	Water	05/16/12 12:45	05/18/12 15:30
2512228003	DP5-051712	Water	05/17/12 08:30	05/18/12 15:30
2512228004	DP10-051612	Water	05/16/12 18:00	05/18/12 15:30
2512228005	DP11-051612	Water	05/16/12 00:00	05/18/12 15:30
2512228006	HA1-051612	Water	05/16/12 19:15	05/18/12 15:30
2512228007	HA2-051612	Water	05/16/12 18:45	05/18/12 15:30
2512228008	TB1-051712	Water	05/17/12 13:00	05/18/12 15:30
2512228009	TB2-051712	Water	05/17/12 13:05	05/18/12 15:30
2512228010	TB3-051712	Water	05/17/12 13:10	05/18/12 15:30
2512228011	TB4-051712	Water	05/17/12 13:15	05/18/12 15:30
2512228012	TB5-051712	Water	05/17/12 13:20	05/18/12 15:30
2512228013	TB6-051712	Water	05/17/12 13:25	05/18/12 15:30
2512228014	TB7-051712	Water	05/17/12 14:00	05/18/12 15:30
2512228015	DP02-10	Solid	05/16/12 10:50	05/18/12 15:30
2512228016	DP02-15	Solid	05/16/12 11:00	05/18/12 15:30
2512228017	DP02-20	Solid	05/16/12 11:50	05/18/12 15:30
2512228018	DP02-25	Solid	05/16/12 12:00	05/18/12 15:30
2512228019	DP02-30	Solid	05/16/12 12:10	05/18/12 15:30
2512228020	DP10-3	Solid	05/16/12 17:30	05/18/12 15:30
2512228021	DP10-10	Solid	05/16/12 17:40	05/18/12 15:30
2512228022	DP10-15	Solid	05/16/12 17:50	05/18/12 15:30
2512228023	DP11-3	Solid	05/16/12 14:20	05/18/12 15:30
2512228024	DP11-10	Solid	05/16/12 14:35	05/18/12 15:30
2512228025	DP11-15	Solid	05/16/12 14:50	05/18/12 15:30
2512228026	DP11-20	Solid	05/16/12 15:05	05/18/12 15:30
2512228027	DP11-25	Solid	05/16/12 15:10	05/18/12 15:30
2512228028	DP11-30	Solid	05/16/12 15:20	05/18/12 15:30
2512228029	DP11-35	Solid	05/16/12 16:00	05/18/12 15:30
2512228030	DP11-40	Solid	05/16/12 16:10	05/18/12 15:30
2512228031	HA1-2	Solid	05/16/12 19:00	05/18/12 15:30
2512228032	HA2-1	Solid	05/16/12 18:00	05/18/12 15:30

## REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square  
Pace Project No.: 2512228

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512228001	DP2S-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228002	DP2D-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228003	DP5-051712	NWTPH-Dx	AY1	4	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228004	DP10-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228005	DP11-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 6020	RR1	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228006	HA1-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		NWTPH-Gx	LNH	2	PASI-S
2512228007	HA2-051612	NWTPH-Dx	AY1	4	PASI-S
		EPA 6020	RJS	7	PASI-M
		EPA 7470	BGA	1	PASI-S
		EPA 5030B/8260	LPM	71	PASI-S
2512228008	TB1-051712	NWTPH-Gx	LPM	2	PASI-S
		EPA 5030B/8260	LNH	71	PASI-S
2512228009	TB2-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228010	TB3-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228011	TB4-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228012	TB5-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228013	TB6-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228014	TB7-051712	EPA 5030B/8260	LNH	71	PASI-S
2512228016	DP02-15	NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RR1	7	PASI-M

### REPORT OF LABORATORY ANALYSIS

### SAMPLE ANALYTE COUNT

Project: Heritage Square

Pace Project No.: 2512228

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2512228021	DP10-10	EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RR1	7	PASI-M
2512228023	DP11-3	EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RR1	7	PASI-M
2512228031	HA1-2	EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RR1	7	PASI-M
2512228032	HA2-1	EPA 7471	BGA	1	PASI-S
		ASTM D2974-87	RAB	1	PASI-S
		NWTPH-Dx	AY1	4	PASI-S
		NWTPH-Gx	LPM	3	PASI-S
		EPA 6020	RR1	7	PASI-M

### REPORT OF LABORATORY ANALYSIS



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

Sample: DP2S-051612		Lab ID: 2512228001		Collected: 05/16/12 11:15	Received: 05/18/12 15:30	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	<0.043	mg/L	0.086	0.043	1	05/25/12 11:30	05/25/12 19:15			
Motor Oil Range SG	<0.22	mg/L	0.43	0.22	1	05/25/12 11:30	05/25/12 19:15	64742-65-0		
<b>Surrogates</b>										
n-Octacosane (S) SG	103 %		50-150		1	05/25/12 11:30	05/25/12 19:15	630-02-4		
o-Terphenyl (S) SG	95 %		50-150		1	05/25/12 11:30	05/25/12 19:15	84-15-1		
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:53	7439-97-6		
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx								
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/25/12 20:03			
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	107 %		50-150		1		05/25/12 20:03	460-00-4		

Sample: DP2D-051612		Lab ID: 2512228002		Collected: 05/16/12 12:45	Received: 05/18/12 15:30	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	<0.042	mg/L	0.083	0.042	1	05/25/12 11:30	05/30/12 20:39			
Motor Oil Range SG	<0.21	mg/L	0.42	0.21	1	05/25/12 11:30	05/30/12 20:39	64742-65-0		
<b>Surrogates</b>										
n-Octacosane (S) SG	105 %		50-150		1	05/25/12 11:30	05/30/12 20:39	630-02-4		
o-Terphenyl (S) SG	95 %		50-150		1	05/25/12 11:30	05/30/12 20:39	84-15-1		
<b>7470 Mercury</b>		Analytical Method: EPA 7470 Preparation Method: EPA 7470								
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:55	7439-97-6		
<b>NWTPH-Gx MSV</b>		Analytical Method: NWTPH-Gx								
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/25/12 20:19			
<b>Surrogates</b>										
4-Bromofluorobenzene (S)	106 %		50-150		1		05/25/12 20:19	460-00-4		

Sample: DP5-051712		Lab ID: 2512228003		Collected: 05/17/12 08:30	Received: 05/18/12 15:30	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>NWTPH-Dx GCS Silica Gel</b>		Analytical Method: NWTPH-Dx Preparation Method: EPA 3510								
Diesel Range SG	<0.040	mg/L	0.079	0.040	1	05/25/12 11:30	05/30/12 20:57			
Motor Oil Range SG	<0.20	mg/L	0.40	0.20	1	05/25/12 11:30	05/30/12 20:57	64742-65-0		
<b>Surrogates</b>										
n-Octacosane (S) SG	100 %		50-150		1	05/25/12 11:30	05/30/12 20:57	630-02-4		

Date: 06/14/2012 10:43 AM

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Heritage Square  
Pace Project No.: 2512228

**Sample: DP5-051712**      **Lab ID: 2512228003**      Collected: 05/17/12 08:30      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
<i><b>Surrogates</b></i>									
o-Terphenyl (S) SG	91 %		50-150		1	05/25/12 11:30	05/30/12 20:57	84-15-1	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:57	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/25/12 20:36		
<i><b>Surrogates</b></i>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/25/12 20:36	460-00-4	

**Sample: DP10-051612**      **Lab ID: 2512228004**      Collected: 05/16/12 18:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.038	mg/L	0.077	0.038	1	05/25/12 11:30	05/30/12 21:49		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	05/25/12 11:30	05/30/12 21:49	64742-65-0	
<i><b>Surrogates</b></i>									
n-Octacosane (S) SG	117 %		50-150		1	05/25/12 11:30	05/30/12 21:49	630-02-4	
o-Terphenyl (S) SG	98 %		50-150		1	05/25/12 11:30	05/30/12 21:49	84-15-1	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:59	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/25/12 20:53		
<i><b>Surrogates</b></i>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/25/12 20:53	460-00-4	

**Sample: DP11-051612**      **Lab ID: 2512228005**      Collected: 05/16/12 00:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.038	mg/L	0.076	0.038	1	05/25/12 11:30	05/30/12 22:07		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	05/25/12 11:30	05/30/12 22:07	64742-65-0	
<i><b>Surrogates</b></i>									
n-Octacosane (S) SG	101 %		50-150		1	05/25/12 11:30	05/30/12 22:07	630-02-4	
o-Terphenyl (S) SG	94 %		50-150		1	05/25/12 11:30	05/30/12 22:07	84-15-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: DP11-051612**      **Lab ID: 2512228005**      Collected: 05/16/12 00:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	54.0	ug/L	0.50	0.14	1	06/01/12 12:17	06/04/12 12:38	7440-38-2	
Barium	1850	ug/L	15.0	7.5	50	06/01/12 12:17	06/04/12 12:43	7440-39-3	
Cadmium	2.8	ug/L	0.080	0.028	1	06/01/12 12:17	06/04/12 12:38	7440-43-9	
Chromium	161	ug/L	0.50	0.094	1	06/01/12 12:17	06/04/12 12:38	7440-47-3	
Lead	118	ug/L	5.0	0.90	50	06/01/12 12:17	06/04/12 12:43	7439-92-1	
Selenium	11.0	ug/L	0.50	0.22	1	06/01/12 12:17	06/04/12 12:38	7782-49-2	
Silver	1.3	ug/L	0.50	0.25	1	06/01/12 12:17	06/04/12 12:38	7440-22-4	
<b>6020 MET ICPMS, Dissolved</b> Analytical Method: EPA 6020									
Arsenic, Dissolved	0.75	ug/L	0.50	0.14	1	06/01/12 12:22	06/05/12 14:10	7440-38-2	B
Barium, Dissolved	73.4	ug/L	0.30	0.15	1	06/01/12 12:22	06/05/12 14:10	7440-39-3	
Cadmium, Dissolved	<0.028	ug/L	0.080	0.028	1	06/01/12 12:22	06/05/12 14:10	7440-43-9	
Chromium, Dissolved	0.19J	ug/L	0.50	0.094	1	06/01/12 12:22	06/05/12 14:10	7440-47-3	
Lead, Dissolved	0.052J	ug/L	0.10	0.018	1	06/01/12 12:22	06/05/12 14:10	7439-92-1	
Selenium, Dissolved	<0.22	ug/L	0.50	0.22	1	06/01/12 12:22	06/05/12 14:10	7782-49-2	
Silver, Dissolved	<0.25	ug/L	0.50	0.25	1	06/01/12 12:22	06/05/12 14:10	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	0.14J	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 16:01	7439-97-6	
<b>7470 Mercury, Dissolved</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury, Dissolved	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 15:13	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics <i>Surrogates</i>	<25.0	ug/L	50.0	25.0	1		05/25/12 21:10		
4-Bromofluorobenzene (S)	104	%	50-150		1		05/25/12 21:10	460-00-4	

**Sample: HA1-051612**      **Lab ID: 2512228006**      Collected: 05/16/12 19:15      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.046	mg/L	0.092	0.046	1	05/25/12 11:30	05/30/12 22:24		
Motor Oil Range SG <i>Surrogates</i>	<0.23	mg/L	0.46	0.23	1	05/25/12 11:30	05/30/12 22:24	64742-65-0	
n-Octacosane (S) SG	101	%	50-150		1	05/25/12 11:30	05/30/12 22:24	630-02-4	
o-Terphenyl (S) SG	92	%	50-150		1	05/25/12 11:30	05/30/12 22:24	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	2.2	ug/L	0.50	0.14	1	06/01/12 12:17	06/04/12 12:52	7440-38-2	
Barium	42.1	ug/L	0.30	0.15	1	06/01/12 12:17	06/04/12 12:52	7440-39-3	
Cadmium	0.046J	ug/L	0.080	0.028	1	06/01/12 12:17	06/04/12 12:52	7440-43-9	
Chromium	4.5	ug/L	0.50	0.094	1	06/01/12 12:17	06/04/12 12:52	7440-47-3	

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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

Sample: HA1-051612      Lab ID: 2512228006      Collected: 05/16/12 19:15      Received: 05/18/12 15:30      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Lead	12.6	ug/L	0.10	0.018	1	06/01/12 12:17	06/04/12 12:52	7439-92-1	
Selenium	0.53	ug/L	0.50	0.22	1	06/01/12 12:17	06/04/12 12:52	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	06/01/12 12:17	06/04/12 12:52	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 16:07	7439-97-6	
<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/25/12 21:27		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105	%	50-150		1		05/25/12 21:27	460-00-4	

Sample: HA2-051612      Lab ID: 2512228007      Collected: 05/16/12 18:45      Received: 05/18/12 15:30      Matrix: Water									
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3510									
Diesel Range SG	<0.038	mg/L	0.077	0.038	1	05/25/12 11:30	05/30/12 22:59		
Motor Oil Range SG	<0.19	mg/L	0.38	0.19	1	05/25/12 11:30	05/30/12 22:59	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	93	%	50-150		1	05/25/12 11:30	05/30/12 22:59	630-02-4	
o-Terphenyl (S) SG	85	%	50-150		1	05/25/12 11:30	05/30/12 22:59	84-15-1	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	0.70	ug/L	0.50	0.14	1	06/01/12 12:17	06/04/12 13:02	7440-38-2	
Barium	13.2	ug/L	0.30	0.15	1	06/01/12 12:17	06/04/12 13:02	7440-39-3	
Cadmium	<0.028	ug/L	0.080	0.028	1	06/01/12 12:17	06/04/12 13:02	7440-43-9	
Chromium	0.78	ug/L	0.50	0.094	1	06/01/12 12:17	06/04/12 13:02	7440-47-3	
Lead	5.7	ug/L	0.10	0.018	1	06/01/12 12:17	06/04/12 13:02	7439-92-1	
Selenium	0.25J	ug/L	0.50	0.22	1	06/01/12 12:17	06/04/12 13:02	7782-49-2	
Silver	<0.25	ug/L	0.50	0.25	1	06/01/12 12:17	06/04/12 13:02	7440-22-4	
<b>7470 Mercury</b> Analytical Method: EPA 7470      Preparation Method: EPA 7470									
Mercury	<0.010	ug/L	0.20	0.010	1	05/22/12 13:45	05/23/12 16:09	7439-97-6	
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:48	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 06:48	78-93-3	

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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: HA2-051612**      **Lab ID: 2512228007**      Collected: 05/16/12 18:45      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 06:48	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 06:48	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 06:48	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	99-87-6	
Methylene chloride	<0.50	ug/L	5.0	0.50	1		05/26/12 06:48	75-09-2	
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 06:48	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	79-34-5	
Tetrachloroethene	4.1	ug/L	1.0	0.10	1		05/26/12 06:48	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	108-88-3	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: HA2-051612**      **Lab ID: 2512228007**      Collected: 05/16/12 18:45      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	79-00-5	
Trichloroethene	0.30J	ug/L	1.0	0.10	1		05/26/12 06:48	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 06:48	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 06:48	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 06:48	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 06:48	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/26/12 06:48	460-00-4	
Dibromofluoromethane (S)	102 %		81-119		1		05/26/12 06:48	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/26/12 06:48	17060-07-0	
Toluene-d8 (S)	98 %		77-120		1		05/26/12 06:48	2037-26-5	

<b>NWTPH-Gx MSV</b> Analytical Method: NWTPH-Gx									
Gasoline Range Organics	<25.0	ug/L	50.0	25.0	1		05/26/12 06:48		
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		50-150		1		05/26/12 06:48	460-00-4	

**Sample: TB1-051712**      **Lab ID: 2512228008**      Collected: 05/17/12 13:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:42	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:42	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-00-3	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB1-051712**      **Lab ID: 2512228008**      Collected: 05/17/12 13:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 19:42	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 19:42	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:42	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/26/12 19:42	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:42	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 19:42	96-18-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB1-051712**      **Lab ID: 2512228008**      Collected: 05/17/12 13:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 19:42	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 19:42	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:42	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	79-121		1		05/26/12 19:42	460-00-4	
Dibromofluoromethane (S)	101	%	81-119		1		05/26/12 19:42	1868-53-7	
1,2-Dichloroethane-d4 (S)	100	%	72-127		1		05/26/12 19:42	17060-07-0	
Toluene-d8 (S)	101	%	77-120		1		05/26/12 19:42	2037-26-5	

**Sample: TB2-051712**      **Lab ID: 2512228009**      Collected: 05/17/12 13:05      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:59	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:59	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 19:59	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-71-8	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB2-051712**      **Lab ID: 2512228009**      Collected: 05/17/12 13:05      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 19:59	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 19:59	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	99-87-6	
Methylene chloride	1.3J	ug/L	5.0	0.50	1		05/26/12 19:59	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 19:59	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 19:59	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 19:59	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 19:59	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 19:59	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	107 %		79-121		1		05/26/12 19:59	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 19:59	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		72-127		1		05/26/12 19:59	17060-07-0	
Toluene-d8 (S)	98 %		77-120		1		05/26/12 19:59	2037-26-5	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB3-051712**      **Lab ID: 2512228010**      Collected: 05/17/12 13:10      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:16	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 20:16	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 20:16	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 20:16	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:16	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/26/12 20:16	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 20:16	108-10-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB3-051712**      **Lab ID: 2512228010**      Collected: 05/17/12 13:10      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 20:16	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 20:16	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 20:16	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:16	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/26/12 20:16	460-00-4	
Dibromofluoromethane (S)	103 %		81-119		1		05/26/12 20:16	1868-53-7	
1,2-Dichloroethane-d4 (S)	99 %		72-127		1		05/26/12 20:16	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/26/12 20:16	2037-26-5	

**Sample: TB4-051712**      **Lab ID: 2512228011**      Collected: 05/17/12 13:15      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:32	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	74-83-9	
2-Butanone (MEK)	2.6J	ug/L	5.0	1.0	1		05/26/12 20:32	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-15-0	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

Sample: **TB4-051712** Lab ID: **2512228011** Collected: 05/17/12 13:15 Received: 05/18/12 15:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 20:32	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 20:32	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:32	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/26/12 20:32	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 20:32	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	79-00-5	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB4-051712**      **Lab ID: 2512228011**      Collected: 05/17/12 13:15      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 20:32	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 20:32	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 20:32	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:32	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	109 %		79-121		1		05/26/12 20:32	460-00-4	
Dibromofluoromethane (S)	101 %		81-119		1		05/26/12 20:32	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		72-127		1		05/26/12 20:32	17060-07-0	
Toluene-d8 (S)	102 %		77-120		1		05/26/12 20:32	2037-26-5	

**Sample: TB5-051712**      **Lab ID: 2512228012**      Collected: 05/17/12 13:20      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:49	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 20:49	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 20:49	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	95-50-1	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB5-051712**      **Lab ID: 2512228012**      Collected: 05/17/12 13:20      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 20:49	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 20:49	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	99-87-6	
Methylene chloride	1.3J	ug/L	5.0	0.50	1		05/26/12 20:49	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 20:49	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 20:49	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 20:49	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 20:49	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 20:49	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		79-121		1		05/26/12 20:49	460-00-4	
Dibromofluoromethane (S)	100 %		81-119		1		05/26/12 20:49	1868-53-7	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB5-051712**      **Lab ID: 2512228012**      Collected: 05/17/12 13:20      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
<b>Surrogates</b>									
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/26/12 20:49	17060-07-0	
Toluene-d8 (S)	99 %		77-120		1		05/26/12 20:49	2037-26-5	

**Sample: TB6-051712**      **Lab ID: 2512228013**      Collected: 05/17/12 13:25      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 5030B/8260							
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 21:06	67-64-1	
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 21:06	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 21:06	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 21:06	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	142-28-9	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB6-051712**      **Lab ID: 2512228013**      Collected: 05/17/12 13:25      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 21:06	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	99-87-6	
Methylene chloride	1.5J	ug/L	5.0	0.50	1		05/26/12 21:06	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 21:06	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	1634-04-4	
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 21:06	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 21:06	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 21:06	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:06	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	104	%	79-121		1		05/26/12 21:06	460-00-4	
Dibromofluoromethane (S)	101	%	81-119		1		05/26/12 21:06	1868-53-7	
1,2-Dichloroethane-d4 (S)	103	%	72-127		1		05/26/12 21:06	17060-07-0	
Toluene-d8 (S)	99	%	77-120		1		05/26/12 21:06	2037-26-5	

**Sample: TB7-051712**      **Lab ID: 2512228014**      Collected: 05/17/12 14:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Acetone	<1.0	ug/L	5.0	1.0	1		05/26/12 21:23	67-64-1	



## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

Sample: **TB7-051712** Lab ID: **2512228014** Collected: 05/17/12 14:00 Received: 05/18/12 15:30 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 5030B/8260									
Benzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	71-43-2	
Bromobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	108-86-1	
Bromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	74-97-5	
Bromodichloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-27-4	
Bromoform	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-25-2	
Bromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	74-83-9	
2-Butanone (MEK)	<1.0	ug/L	5.0	1.0	1		05/26/12 21:23	78-93-3	
n-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	104-51-8	
sec-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	135-98-8	
tert-Butylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	98-06-6	
Carbon disulfide	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-15-0	
Carbon tetrachloride	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	56-23-5	
Chlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	108-90-7	
Chloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-00-3	
Chloroform	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	67-66-3	
Chloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	74-87-3	
2-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	95-49-8	
4-Chlorotoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	106-43-4	
1,2-Dibromo-3-chloropropane	<0.50	ug/L	5.0	0.50	1		05/26/12 21:23	96-12-8	
Dibromochloromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	124-48-1	
1,2-Dibromoethane (EDB)	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	106-93-4	
Dibromomethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	74-95-3	
1,2-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	95-50-1	
1,3-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	541-73-1	
1,4-Dichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	106-46-7	
Dichlorodifluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-71-8	
1,1-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-34-3	
1,2-Dichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	107-06-2	
1,2-Dichloroethene (Total)	<0.20	ug/L	2.0	0.20	1		05/26/12 21:23	540-59-0	
1,1-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-35-4	
cis-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	156-59-2	
trans-1,2-Dichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	156-60-5	
1,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	78-87-5	
1,3-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	142-28-9	
2,2-Dichloropropane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	594-20-7	
1,1-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	563-58-6	
cis-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	10061-01-5	
trans-1,3-Dichloropropene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	10061-02-6	
Ethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	100-41-4	
Hexachloro-1,3-butadiene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	87-68-3	
2-Hexanone	<1.0	ug/L	5.0	1.0	1		05/26/12 21:23	591-78-6	
Isopropylbenzene (Cumene)	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	98-82-8	
p-Isopropyltoluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	99-87-6	
Methylene chloride	1.4J	ug/L	5.0	0.50	1		05/26/12 21:23	75-09-2	B
4-Methyl-2-pentanone (MIBK)	<1.0	ug/L	5.0	1.0	1		05/26/12 21:23	108-10-1	
Methyl-tert-butyl ether	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	1634-04-4	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: TB7-051712**      **Lab ID: 2512228014**      Collected: 05/17/12 14:00      Received: 05/18/12 15:30      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 5030B/8260									
Naphthalene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	91-20-3	
n-Propylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	103-65-1	
Styrene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	100-42-5	
1,1,1,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	630-20-6	
1,1,2,2-Tetrachloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	79-34-5	
Tetrachloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	127-18-4	
Toluene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	108-88-3	
1,2,3-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	87-61-6	
1,2,4-Trichlorobenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	120-82-1	
1,1,1-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	71-55-6	
1,1,2-Trichloroethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	79-00-5	
Trichloroethene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	79-01-6	
Trichlorofluoromethane	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-69-4	
1,2,3-Trichloropropane	<0.20	ug/L	1.0	0.20	1		05/26/12 21:23	96-18-4	
1,2,4-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	95-63-6	
1,3,5-Trimethylbenzene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	108-67-8	
Vinyl chloride	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	75-01-4	
Xylene (Total)	<0.30	ug/L	3.0	0.30	1		05/26/12 21:23	1330-20-7	
m&p-Xylene	<0.20	ug/L	2.0	0.20	1		05/26/12 21:23	179601-23-1	
o-Xylene	<0.10	ug/L	1.0	0.10	1		05/26/12 21:23	95-47-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	106 %		79-121		1		05/26/12 21:23	460-00-4	
Dibromofluoromethane (S)	104 %		81-119		1		05/26/12 21:23	1868-53-7	
1,2-Dichloroethane-d4 (S)	102 %		72-127		1		05/26/12 21:23	17060-07-0	
Toluene-d8 (S)	101 %		77-120		1		05/26/12 21:23	2037-26-5	

**Sample: DP02-15**      **Lab ID: 2512228016**      Collected: 05/16/12 11:00      Received: 05/18/12 15:30      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<8.4	mg/kg	16.9	8.4	1	05/23/12 11:45	05/23/12 19:05		
Motor Oil Range SG	<33.7	mg/kg	67.5	33.7	1	05/23/12 11:45	05/23/12 19:05	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	110 %		50-150		1	05/23/12 11:45	05/23/12 19:05	630-02-4	
o-Terphenyl (S) SG	99 %		50-150		1	05/23/12 11:45	05/23/12 19:05	84-15-1	
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<2.9	mg/kg	5.9	2.9	1	05/24/12 18:47	05/25/12 18:17		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	106 %		50-150		1	05/24/12 18:47	05/25/12 18:17	98-08-8	
4-Bromofluorobenzene (S)	82 %		50-150		1	05/24/12 18:47	05/25/12 18:17	460-00-4	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: DP02-15**      **Lab ID: 2512228016**      Collected: 05/16/12 11:00      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	2.6	mg/kg	0.51	0.19	20	06/06/12 13:33	06/07/12 13:31	7440-38-2	
Barium	58.8	mg/kg	0.30	0.067	20	06/06/12 13:33	06/07/12 13:31	7440-39-3	
Cadmium	0.043J	mg/kg	0.081	0.024	20	06/06/12 13:33	06/07/12 13:31	7440-43-9	
Chromium	10.4	mg/kg	0.51	0.18	20	06/06/12 13:33	06/07/12 13:31	7440-47-3	
Lead	107	mg/kg	0.10	0.030	20	06/06/12 13:33	06/07/12 13:31	7439-92-1	
Selenium	0.35J	mg/kg	0.51	0.20	20	06/06/12 13:33	06/07/12 13:31	7782-49-2	
Silver	<0.19	mg/kg	0.51	0.19	20	06/06/12 13:33	06/07/12 13:31	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	0.0060J	mg/kg	0.087	0.0019	1	05/23/12 14:15	05/24/12 11:29	7439-97-6	
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	7.2	%	0.10	0.10	1		05/22/12 17:52		

**Sample: DP10-10**      **Lab ID: 2512228021**      Collected: 05/16/12 17:40      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<10.5	mg/kg	21.1	10.5	1	05/23/12 11:45	05/23/12 21:07		
Motor Oil Range SG	<42.1	mg/kg	84.3	42.1	1	05/23/12 11:45	05/23/12 21:07	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	97	%	50-150		1	05/23/12 11:45	05/23/12 21:07	630-02-4	
o-Terphenyl (S) SG	89	%	50-150		1	05/23/12 11:45	05/23/12 21:07	84-15-1	
<b>NWTPH-Gx GCV</b> Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<4.0	mg/kg	7.9	4.0	1	05/24/12 18:47	05/25/12 20:38		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	96	%	50-150		1	05/24/12 18:47	05/25/12 20:38	98-08-8	
4-Bromofluorobenzene (S)	73	%	50-150		1	05/24/12 18:47	05/25/12 20:38	460-00-4	

<b>6020 MET ICPMS</b> Analytical Method: EPA 6020									
Arsenic	15.3	mg/kg	0.68	0.25	20	06/06/12 13:33	06/07/12 13:34	7440-38-2	
Barium	164	mg/kg	0.41	0.089	20	06/06/12 13:33	06/07/12 13:34	7440-39-3	
Cadmium	0.32	mg/kg	0.11	0.032	20	06/06/12 13:33	06/07/12 13:34	7440-43-9	
Chromium	32.1	mg/kg	0.68	0.24	20	06/06/12 13:33	06/07/12 13:34	7440-47-3	
Lead	15.4	mg/kg	0.14	0.041	20	06/06/12 13:33	06/07/12 13:34	7439-92-1	
Selenium	2.0	mg/kg	0.68	0.27	20	06/06/12 13:33	06/07/12 13:34	7782-49-2	
Silver	<0.25	mg/kg	0.68	0.25	20	06/06/12 13:33	06/07/12 13:34	7440-22-4	
<b>7471 Mercury</b> Analytical Method: EPA 7471      Preparation Method: EPA 7471									
Mercury	0.072J	mg/kg	0.097	0.0021	1	05/23/12 14:15	05/24/12 11:31	7439-97-6	

## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample: DP10-10**      **Lab ID: 2512228021**      Collected: 05/16/12 17:40      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Percent Moisture</b> Analytical Method: ASTM D2974-87									
Percent Moisture	<b>26.1</b>	%	0.10	0.10	1		05/22/12 17:57		

**Sample: DP11-3**      **Lab ID: 2512228023**      Collected: 05/16/12 14:20      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b> Analytical Method: NWTPH-Dx      Preparation Method: EPA 3546									
Diesel Range SG	<b>&lt;11.8</b>	mg/kg	23.6	11.8	1	05/23/12 11:45	05/23/12 21:42		
Motor Oil Range SG	<b>&lt;47.2</b>	mg/kg	94.3	47.2	1	05/23/12 11:45	05/23/12 21:42	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	82	%	50-150		1	05/23/12 11:45	05/23/12 21:42	630-02-4	
o-Terphenyl (S) SG	76	%	50-150		1	05/23/12 11:45	05/23/12 21:42	84-15-1	

**NWTPH-Gx GCV**      Analytical Method: NWTPH-Gx      Preparation Method: NWTPH-Gx

Gasoline Range Organics	<b>&lt;10.5</b>	mg/kg	20.9	10.5	1	05/24/12 18:47	05/25/12 21:25		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	100	%	50-150		1	05/24/12 18:47	05/25/12 21:25	98-08-8	
4-Bromofluorobenzene (S)	80	%	50-150		1	05/24/12 18:47	05/25/12 21:25	460-00-4	

**6020 MET ICPMS**      Analytical Method: EPA 6020

Arsenic	<b>19.7</b>	mg/kg	0.76	0.29	20	06/06/12 13:33	06/07/12 13:38	7440-38-2	
Barium	<b>55.9</b>	mg/kg	0.46	0.10	20	06/06/12 13:33	06/07/12 13:38	7440-39-3	
Cadmium	<b>0.067J</b>	mg/kg	0.12	0.037	20	06/06/12 13:33	06/07/12 13:38	7440-43-9	
Chromium	<b>47.8</b>	mg/kg	0.76	0.26	20	06/06/12 13:33	06/07/12 13:38	7440-47-3	
Lead	<b>24.9</b>	mg/kg	0.15	0.046	20	06/06/12 13:33	06/07/12 13:38	7439-92-1	
Selenium	<b>2.4</b>	mg/kg	0.76	0.30	20	06/06/12 13:33	06/07/12 13:38	7782-49-2	
Silver	<b>&lt;0.28</b>	mg/kg	0.76	0.28	20	06/06/12 13:33	06/07/12 13:38	7440-22-4	

**7471 Mercury**      Analytical Method: EPA 7471      Preparation Method: EPA 7471

Mercury	<b>0.028J</b>	mg/kg	0.095	0.0021	1	05/23/12 14:15	05/24/12 11:39	7439-97-6	
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**Percent Moisture**      Analytical Method: ASTM D2974-87

Percent Moisture	<b>34.3</b>	%	0.10	0.10	1		05/22/12 17:59		
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## ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample:** HA1-2      **Lab ID:** 2512228031      Collected: 05/16/12 19:00      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	<10.8	mg/kg	21.5	10.8	1	05/23/12 11:45	05/24/12 00:52		
Motor Oil Range SG	<43.0	mg/kg	86.0	43.0	1	05/23/12 11:45	05/24/12 00:52	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	100	%	50-150		1	05/23/12 11:45	05/24/12 00:52	630-02-4	
o-Terphenyl (S) SG	91	%	50-150		1	05/23/12 11:45	05/24/12 00:52	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<4.4	mg/kg	8.8	4.4	1	05/25/12 07:58	05/30/12 13:05		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	99	%	50-150		1	05/25/12 07:58	05/30/12 13:05	98-08-8	
4-Bromofluorobenzene (S)	77	%	50-150		1	05/25/12 07:58	05/30/12 13:05	460-00-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020									
Arsenic	2.5	mg/kg	0.62	0.23	20	06/06/12 13:33	06/07/12 13:41	7440-38-2	
Barium	58.2	mg/kg	0.37	0.082	20	06/06/12 13:33	06/07/12 13:41	7440-39-3	
Cadmium	0.045J	mg/kg	0.10	0.030	20	06/06/12 13:33	06/07/12 13:41	7440-43-9	
Chromium	10.5	mg/kg	0.62	0.22	20	06/06/12 13:33	06/07/12 13:41	7440-47-3	
Lead	2.2	mg/kg	0.12	0.037	20	06/06/12 13:33	06/07/12 13:41	7439-92-1	
Selenium	0.33J	mg/kg	0.62	0.25	20	06/06/12 13:33	06/07/12 13:41	7782-49-2	
Silver	<0.23	mg/kg	0.62	0.23	20	06/06/12 13:33	06/07/12 13:41	7440-22-4	
<b>7471 Mercury</b>									
Analytical Method: EPA 7471 Preparation Method: EPA 7471									
Mercury	0.0053J	mg/kg	0.11	0.0023	1	05/23/12 14:15	05/24/12 11:42	7439-97-6	
<b>Percent Moisture</b>									
Analytical Method: ASTM D2974-87									
Percent Moisture	26.9	%	0.10	0.10	1		05/22/12 18:11		

**Sample:** HA2-1      **Lab ID:** 2512228032      Collected: 05/16/12 18:00      Received: 05/18/12 15:30      Matrix: Solid

*Results reported on a "dry-weight" basis*

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Dx GCS Silica Gel</b>									
Analytical Method: NWTPH-Dx Preparation Method: EPA 3546									
Diesel Range SG	<9.1	mg/kg	18.2	9.1	1	05/23/12 11:45	05/24/12 01:10		
Motor Oil Range SG	<36.4	mg/kg	72.7	36.4	1	05/23/12 11:45	05/24/12 01:10	64742-65-0	
<b>Surrogates</b>									
n-Octacosane (S) SG	114	%	50-150		1	05/23/12 11:45	05/24/12 01:10	630-02-4	
o-Terphenyl (S) SG	104	%	50-150		1	05/23/12 11:45	05/24/12 01:10	84-15-1	
<b>NWTPH-Gx GCV</b>									
Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx									
Gasoline Range Organics	<4.3	mg/kg	8.6	4.3	1	05/25/12 07:58	05/30/12 14:07		
<b>Surrogates</b>									
a,a,a-Trifluorotoluene (S)	94	%	50-150		1	05/25/12 07:58	05/30/12 14:07	98-08-8	

### ANALYTICAL RESULTS

Project: Heritage Square

Pace Project No.: 2512228

**Sample:** HA2-1      **Lab ID:** 2512228032      Collected: 05/16/12 18:00      Received: 05/18/12 15:30      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>NWTPH-Gx GCV</b>		Analytical Method: NWTPH-Gx Preparation Method: NWTPH-Gx							
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	62 %		50-150		1	05/25/12 07:58	05/30/12 14:07	460-00-4	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020							
Arsenic	<b>4.1</b> mg/kg		0.58	0.22	20	06/06/12 13:33	06/07/12 13:45	7440-38-2	
Barium	<b>104</b> mg/kg		0.35	0.077	20	06/06/12 13:33	06/07/12 13:45	7440-39-3	
Cadmium	<b>0.070J</b> mg/kg		0.093	0.028	20	06/06/12 13:33	06/07/12 13:45	7440-43-9	
Chromium	<b>11.6</b> mg/kg		0.58	0.20	20	06/06/12 13:33	06/07/12 13:45	7440-47-3	
Lead	<b>19.4</b> mg/kg		0.12	0.035	20	06/06/12 13:33	06/07/12 13:45	7439-92-1	
Selenium	<b>0.54J</b> mg/kg		0.58	0.23	20	06/06/12 13:33	06/07/12 13:45	7782-49-2	
Silver	<b>&lt;0.22</b> mg/kg		0.58	0.22	20	06/06/12 13:33	06/07/12 13:45	7440-22-4	
<b>7471 Mercury</b>		Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	<b>0.070J</b> mg/kg		0.094	0.0020	1	05/23/12 14:15	05/24/12 11:44	7439-97-6	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974-87							
Percent Moisture	<b>15.8</b> %		0.10	0.10	1		05/22/12 18:11		

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: GCV/2796

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx Solid GCV

Associated Lab Samples: 2512228016, 2512228021, 2512228023

METHOD BLANK: 116556

Matrix: Solid

Associated Lab Samples: 2512228016, 2512228021, 2512228023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	5.0	05/25/12 14:00	
4-Bromofluorobenzene (S)	%	78	50-150	05/25/12 14:00	
a,a,a-Trifluorotoluene (S)	%	98	50-150	05/25/12 14:00	

LABORATORY CONTROL SAMPLE: 116557

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	12.5	11.6	93	63-140	
4-Bromofluorobenzene (S)	%			81	50-150	
a,a,a-Trifluorotoluene (S)	%			98	50-150	

SAMPLE DUPLICATE: 116934

Parameter	Units	2512215020 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	<2.5		30	
4-Bromofluorobenzene (S)	%	81	68	17		
a,a,a-Trifluorotoluene (S)	%	108	98	10		

SAMPLE DUPLICATE: 116935

Parameter	Units	2512228018 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg		<3.0			
4-Bromofluorobenzene (S)	%		73			
a,a,a-Trifluorotoluene (S)	%		96			

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: GCV/2803      Analysis Method: NWTPH-Gx  
 QC Batch Method: NWTPH-Gx      Analysis Description: NWTPH-Gx Solid GCV  
 Associated Lab Samples: 2512228031, 2512228032

METHOD BLANK: 116936      Matrix: Solid

Associated Lab Samples: 2512228031, 2512228032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	<2.5	5.0	05/30/12 09:50	
4-Bromofluorobenzene (S)	%	78	50-150	05/30/12 09:50	
a,a,a-Trifluorotoluene (S)	%	93	50-150	05/30/12 09:50	

LABORATORY CONTROL SAMPLE: 116937

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	12.5	9.8	79	63-140	
4-Bromofluorobenzene (S)	%			75	50-150	
a,a,a-Trifluorotoluene (S)	%			79	50-150	

SAMPLE DUPLICATE: 117243

Parameter	Units	2512270002 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	12000	13000	8	30	
4-Bromofluorobenzene (S)	%	103	106	3		
a,a,a-Trifluorotoluene (S)	%	123	125	2		

SAMPLE DUPLICATE: 117244

Parameter	Units	2512229025 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	<5.0	<5.0		30	
4-Bromofluorobenzene (S)	%	65	66	1		
a,a,a-Trifluorotoluene (S)	%	93	95	3		



**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: ICPM/32839 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

METHOD BLANK: 1211678 Matrix: Solid  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<0.18	0.48	06/07/12 11:57	
Barium	mg/kg	<0.063	0.29	06/07/12 11:57	
Cadmium	mg/kg	<0.023	0.077	06/07/12 11:57	
Chromium	mg/kg	<0.17	0.48	06/07/12 11:57	
Lead	mg/kg	<0.029	0.096	06/07/12 11:57	
Selenium	mg/kg	<0.19	0.48	06/07/12 11:57	
Silver	mg/kg	0.27J	0.48	06/07/12 11:57	

LABORATORY CONTROL SAMPLE: 1211679

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	19.4	21.2	109	80-120	
Barium	mg/kg	19.4	21.0	108	80-120	
Cadmium	mg/kg	19.4	20.8	107	80-120	
Chromium	mg/kg	19.4	21.4	110	80-120	
Lead	mg/kg	19.4	20.9	108	80-120	
Selenium	mg/kg	19.4	20.6	106	80-120	
Silver	mg/kg	19.4	21.7	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1211749 1211750

Parameter	Units	2512322001		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
Arsenic	mg/kg	3.4	18.7	18.7	19.2	25.7	23.1	119	103	75-125	11	30			
Barium	mg/kg	35.0	18.7	18.7	19.2	84.8	57.8	266	118	75-125	38	30	D6,M6		
Cadmium	mg/kg	0.084	18.7	18.7	19.2	20.7	19.4	110	101	75-125	7	30			
Chromium	mg/kg	18.9	18.7	18.7	19.2	38.8	40.3	106	112	75-125	4	30			
Lead	mg/kg	5.1	18.7	18.7	19.2	25.6	24.4	109	101	75-125	5	30			
Selenium	mg/kg	ND	18.7	18.7	19.2	20.2	19.5	107	100	75-125	4	30			
Silver	mg/kg	ND	18.7	18.7	19.2	21.2	19.9	112	102	75-125	6	30			

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: ICPM/32752 Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020 Analysis Description: 6020 MET  
 Associated Lab Samples: 2512228005, 2512228006, 2512228007

METHOD BLANK: 1208818 Matrix: Water

Associated Lab Samples: 2512228005, 2512228006, 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	<0.14	0.50	06/04/12 12:28	
Barium	ug/L	<0.15	0.30	06/04/12 12:28	
Cadmium	ug/L	<0.028	0.080	06/04/12 12:28	
Chromium	ug/L	<0.094	0.50	06/04/12 12:28	
Lead	ug/L	<0.018	0.10	06/04/12 12:28	
Selenium	ug/L	<0.22	0.50	06/04/12 12:28	
Silver	ug/L	<0.25	0.50	06/04/12 12:28	

LABORATORY CONTROL SAMPLE: 1208819

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	80	77.3	97	80-120	
Barium	ug/L	80	77.6	97	80-120	
Cadmium	ug/L	80	76.9	96	80-120	
Chromium	ug/L	80	76.0	95	80-120	
Lead	ug/L	80	77.6	97	80-120	
Selenium	ug/L	80	79.9	100	80-120	
Silver	ug/L	80	80.2	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1208820 1208821

Parameter	Units	2512228007		MS		MSD		% Rec		Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Arsenic	ug/L	0.70	80	80	78.6	76.0	97	94	75-125	3	20		
Barium	ug/L	13.2	80	80	90.7	90.3	97	96	75-125	.4	20		
Cadmium	ug/L	<0.028	80	80	75.3	75.1	94	94	75-125	.3	20		
Chromium	ug/L	0.78	80	80	76.2	75.8	94	94	75-125	.4	20		
Lead	ug/L	5.7	80	80	79.7	80.3	93	93	75-125	.6	20		
Selenium	ug/L	0.25J	80	80	76.7	77.3	96	96	75-125	.7	20		
Silver	ug/L	<0.25	80	80	78.9	79.2	99	99	75-125	.5	20		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: ICPM/32750      Analysis Method: EPA 6020  
 QC Batch Method: EPA 6020      Analysis Description: 6020 MET Dissolved  
 Associated Lab Samples: 2512228005

METHOD BLANK: 1208809      Matrix: Water

Associated Lab Samples: 2512228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	0.18J	0.50	06/05/12 14:20	
Barium, Dissolved	ug/L	<0.15	0.30	06/05/12 14:20	
Cadmium, Dissolved	ug/L	<0.028	0.080	06/05/12 14:20	
Chromium, Dissolved	ug/L	<0.094	0.50	06/05/12 14:20	
Lead, Dissolved	ug/L	<0.018	0.10	06/05/12 14:20	
Selenium, Dissolved	ug/L	<0.22	0.50	06/05/12 14:20	
Silver, Dissolved	ug/L	<0.25	0.50	06/05/12 14:20	

LABORATORY CONTROL SAMPLE: 1208810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	80	76.2	95	80-120	
Barium, Dissolved	ug/L	80	76.8	96	80-120	
Cadmium, Dissolved	ug/L	80	76.9	96	80-120	
Chromium, Dissolved	ug/L	80	78.9	99	80-120	
Lead, Dissolved	ug/L	80	78.8	98	80-120	
Selenium, Dissolved	ug/L	80	76.8	96	80-120	
Silver, Dissolved	ug/L	80	77.9	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1209630      1209631

Parameter	Units	2512342002		MS		MSD		% Rec		Max		Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	
Arsenic, Dissolved	ug/L	0.88	80	80	73.9	78.8	91	97	75-125	6	20	
Barium, Dissolved	ug/L	157	80	80	228	220	88	78	75-125	4	20	
Cadmium, Dissolved	ug/L	ND	80	80	74.4	69.2	93	87	75-125	7	20	
Chromium, Dissolved	ug/L	0.55	80	80	75.8	69.7	94	86	75-125	8	20	
Lead, Dissolved	ug/L	ND	80	80	74.6	68.1	93	85	75-125	9	20	
Selenium, Dissolved	ug/L	ND	80	80	73.8	68.2	92	85	75-125	8	20	
Silver, Dissolved	ug/L	ND	80	80	41.4	44.0	52	55	75-125	6	20	M1

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512228

QC Batch: MERP/1691 Analysis Method: EPA 7470  
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006, 2512228007

METHOD BLANK: 116012 Matrix: Water  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006, 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.010	0.20	05/23/12 15:15	

LABORATORY CONTROL SAMPLE: 116013

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	5	5.0	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116014 116015

Parameter	Units	2512215001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	<0.010	5	5	6.1	6.3	122	125	75-125	3	20	

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: MERP/1690

Analysis Method: EPA 7470

QC Batch Method: EPA 7470

Analysis Description: 7470 Mercury ,Dissolved

Associated Lab Samples: 2512228005

METHOD BLANK: 116008

Matrix: Water

Associated Lab Samples: 2512228005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury, Dissolved	ug/L	<0.010	0.20	05/23/12 14:58	

LABORATORY CONTROL SAMPLE: 116009

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury, Dissolved	ug/L	5	5.5	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116010

116011

Parameter	Units	2512215005		MS	MSD	MS	MSD	MS	MSD	% Rec	Max		
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Mercury, Dissolved	ug/L	<0.010		5	5	6.1	5.7	121	115	75-125	6	20	

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: MERP/1695 Analysis Method: EPA 7471  
 QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

METHOD BLANK: 116258 Matrix: Solid  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.0022	0.10	05/24/12 11:13	

LABORATORY CONTROL SAMPLE: 116259

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.5	0.48	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116260 116261

Parameter	Units	2512277001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	mg/kg	0.015J	.38	.39	0.38	0.39	95	94	80-120	1	20		

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: MSV/7075

Analysis Method: EPA 5030B/8260

QC Batch Method: EPA 5030B/8260

Analysis Description: 8260 MSV Water 10 mL Purge

Associated Lab Samples: 2512228007

METHOD BLANK: 116778

Matrix: Water

Associated Lab Samples: 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/26/12 03:43	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2,4-Trimethylbenzene	ug/L	0.12J	1.0	05/26/12 03:43	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/26/12 03:43	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/26/12 03:43	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 03:43	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/26/12 03:43	
2-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 03:43	
2-Hexanone	ug/L	<1.0	5.0	05/26/12 03:43	
4-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 03:43	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/26/12 03:43	
Acetone	ug/L	<1.0	5.0	05/26/12 03:43	
Benzene	ug/L	<0.10	1.0	05/26/12 03:43	
Bromobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Bromochloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Bromodichloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Bromoform	ug/L	<0.10	1.0	05/26/12 03:43	
Bromomethane	ug/L	<0.10	1.0	05/26/12 03:43	
Carbon disulfide	ug/L	<0.10	1.0	05/26/12 03:43	
Carbon tetrachloride	ug/L	<0.10	1.0	05/26/12 03:43	
Chlorobenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Chloroethane	ug/L	<0.10	1.0	05/26/12 03:43	
Chloroform	ug/L	<0.10	1.0	05/26/12 03:43	
Chloromethane	ug/L	<0.10	1.0	05/26/12 03:43	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
Dibromochloromethane	ug/L	<0.10	1.0	05/26/12 03:43	

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### QUALITY CONTROL DATA

Project: Heritage Square

Peace Project No.: 2512228

METHOD BLANK: 116778

Matrix: Water

Associated Lab Samples: 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.10	1.0	05/26/12 03:43	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Ethylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/26/12 03:43	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/26/12 03:43	
m&p-Xylene	ug/L	<0.20	2.0	05/26/12 03:43	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/26/12 03:43	
Methylene chloride	ug/L	2.0J	5.0	05/26/12 03:43	
n-Butylbenzene	ug/L	0.10J	1.0	05/26/12 03:43	
n-Propylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Naphthalene	ug/L	<0.10	1.0	05/26/12 03:43	
o-Xylene	ug/L	<0.10	1.0	05/26/12 03:43	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/26/12 03:43	
sec-Butylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Styrene	ug/L	<0.10	1.0	05/26/12 03:43	
tert-Butylbenzene	ug/L	<0.10	1.0	05/26/12 03:43	
Tetrachloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
Toluene	ug/L	0.13J	1.0	05/26/12 03:43	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 03:43	
Trichloroethene	ug/L	<0.10	1.0	05/26/12 03:43	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/26/12 03:43	
Vinyl chloride	ug/L	<0.10	1.0	05/26/12 03:43	
Xylene (Total)	ug/L	<0.30	3.0	05/26/12 03:43	
1,2-Dichloroethane-d4 (S)	%	101	72-127	05/26/12 03:43	
4-Bromofluorobenzene (S)	%	107	79-121	05/26/12 03:43	
Dibromofluoromethane (S)	%	100	81-119	05/26/12 03:43	
Toluene-d8 (S)	%	102	77-120	05/26/12 03:43	

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	20.5	102	70-122	
1,1,1-Trichloroethane	ug/L	20	20.3	102	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	19.0	95	62-133	
1,1,2-Trichloroethane	ug/L	20	20.7	103	68-122	
1,1-Dichloroethane	ug/L	20	20.6	103	70-125	
1,1-Dichloroethene	ug/L	20	20.9	104	69-142	
1,1-Dichloropropene	ug/L	20	20.8	104	67-129	
1,2,3-Trichlorobenzene	ug/L	20	17.2	86	60-132	
1,2,3-Trichloropropane	ug/L	20	19.5	98	65-120	
1,2,4-Trichlorobenzene	ug/L	20	17.3	87	62-127	
1,2,4-Trimethylbenzene	ug/L	20	19.7	99	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	20.6	103	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	20.1	100	65-123	



### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	19.0	95	71-118	
1,2-Dichloroethane	ug/L	20	20.1	100	63-131	
1,2-Dichloroethene (Total)	ug/L	40	41.2	103	73-134	
1,2-Dichloropropane	ug/L	20	20.2	101	70-125	
1,3,5-Trimethylbenzene	ug/L	20	19.4	97	70-123	
1,3-Dichlorobenzene	ug/L	20	18.9	94	72-119	
1,3-Dichloropropane	ug/L	20	20.0	100	69-122	
1,4-Dichlorobenzene	ug/L	20	18.7	93	70-116	
2,2-Dichloropropane	ug/L	20	18.9	94	52-149	
2-Butanone (MEK)	ug/L	40	40.6	101	45-155	
2-Chlorotoluene	ug/L	20	18.4	92	69-119	
2-Hexanone	ug/L	40	41.0	102	50-151	
4-Chlorotoluene	ug/L	20	19.3	97	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	40.2	101	61-145	
Acetone	ug/L	40	42.9	107	40-160	
Benzene	ug/L	20	17.9	90	66-123	
Bromobenzene	ug/L	20	19.8	99	68-118	
Bromochloromethane	ug/L	20	20.6	103	72-128	
Bromodichloromethane	ug/L	20	20.2	101	68-129	
Bromoform	ug/L	20	19.1	95	54-118	
Bromomethane	ug/L	20	22.2	111	43-151	
Carbon disulfide	ug/L	20	21.3	106	52-142	
Carbon tetrachloride	ug/L	20	20.7	104	67-135	
Chlorobenzene	ug/L	20	18.9	95	72-116	
Chloroethane	ug/L	20	20.1	101	48-139	
Chloroform	ug/L	20	20.4	102	71-124	
Chloromethane	ug/L	20	22.1	111	40-152	
cis-1,2-Dichloroethene	ug/L	20	21.2	106	74-133	
cis-1,3-Dichloropropene	ug/L	10	10.6	106	64-132	
Dibromochloromethane	ug/L	20	19.8	99	60-121	
Dibromomethane	ug/L	20	20.2	101	69-131	
Dichlorodifluoromethane	ug/L	20	22.7	113	40-160	
Ethylbenzene	ug/L	20	20.7	104	67-122	
Hexachloro-1,3-butadiene	ug/L	20	20.4	102	55-139	
Isopropylbenzene (Cumene)	ug/L	20	20.5	103	67-124	
m&p-Xylene	ug/L	40	41.9	105	66-122	
Methyl-tert-butyl ether	ug/L	20	20.1	100	65-138	
Methylene chloride	ug/L	20	22.2	111	58-137	
n-Butylbenzene	ug/L	20	20.5	103	68-129	
n-Propylbenzene	ug/L	20	19.7	98	66-126	
Naphthalene	ug/L	20	16.0	80	59-133	
o-Xylene	ug/L	20	20.6	103	69-123	
p-Isopropyltoluene	ug/L	20	18.8	94	69-127	
sec-Butylbenzene	ug/L	20	19.7	99	68-129	
Styrene	ug/L	20	20.3	102	72-125	
tert-Butylbenzene	ug/L	20	18.9	95	58-120	
Tetrachloroethene	ug/L	20	20.1	100	40-115	
Toluene	ug/L	20	20.1	101	64-118	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

LABORATORY CONTROL SAMPLE: 116779

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	20.0	100	70-134	
trans-1,3-Dichloropropene	ug/L	10	8.8	88	52-115	
Trichloroethene	ug/L	20	19.8	99	69-125	
Trichlorofluoromethane	ug/L	20	22.5	112	57-155	
Vinyl chloride	ug/L	20	22.9	115	53-132	
Xylene (Total)	ug/L	60	62.6	104	68-122	
1,2-Dichloroethane-d4 (S)	%			99	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			100	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117995 117996

Parameter	2512450001		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	17.2	19.6	86	98	67-132	13	22	
1,1,1-Trichloroethane	ug/L	ND	20	20	17.6	20.3	88	101	67-145	14	22	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	15.9	18.3	79	92	65-135	14	23	
1,1,2-Trichloroethane	ug/L	ND	20	20	16.8	19.1	84	96	67-126	13	22	
1,1-Dichloroethane	ug/L	ND	20	20	17.5	20.0	88	100	69-138	13	21	
1,1-Dichloroethene	ug/L	ND	20	20	18.4	21.0	92	105	68-160	13	21	
1,1-Dichloropropene	ug/L	ND	20	20	18.0	20.7	90	104	68-145	14	22	
1,2,3-Trichlorobenzene	ug/L	ND	20	20	15.7	18.9	78	94	57-131	18	30	
1,2,3-Trichloropropane	ug/L	ND	20	20	15.9	18.8	80	94	61-123	17	24	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	15.5	18.5	77	93	58-130	18	24	
1,2,4-Trimethylbenzene	ug/L	ND	20	20	16.2	18.9	76	90	60-136	15	24	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	18.1	20.4	90	102	48-127	12	25	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	17.3	19.5	86	98	61-127	12	25	
1,2-Dichlorobenzene	ug/L	ND	20	20	15.7	18.5	79	92	67-126	16	21	
1,2-Dichloroethane	ug/L	ND	20	20	16.5	18.9	82	95	60-138	14	23	
1,2-Dichloroethene (Total)	ug/L	ND	40	40	35.6	40.5	89	101	70-146	13	22	
1,2-Dichloropropane	ug/L	ND	20	20	17.1	19.6	86	98	67-138	14	22	
1,3,5-Trimethylbenzene	ug/L	ND	20	20	16.2	19.0	79	93	64-135	16	25	
1,3-Dichlorobenzene	ug/L	ND	20	20	15.5	18.3	77	91	69-128	17	21	
1,3-Dichloropropane	ug/L	ND	20	20	16.3	18.6	81	93	65-128	13	22	
1,4-Dichlorobenzene	ug/L	ND	20	20	15.2	18.0	76	90	66-124	17	28	
2,2-Dichloropropane	ug/L	ND	20	20	14.3	16.5	71	82	46-160	14	24	
2-Butanone (MEK)	ug/L	ND	40	40	37.2	41.0	93	102	40-140	10	25	
2-Chlorotoluene	ug/L	ND	20	20	15.2	17.9	76	90	67-129	17	20	
2-Hexanone	ug/L	ND	40	40	35.2	41.3	88	103	42-141	16	27	
4-Chlorotoluene	ug/L	ND	20	20	16.1	18.9	80	94	67-133	16	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	33.8	37.3	85	93	54-151	10	27	
Acetone	ug/L	ND	40	40	42.5	44.3	106	111	40-155	4	30	
Benzene	ug/L	ND	20	20	15.6	17.7	74	85	63-138	13	24	
Bromobenzene	ug/L	ND	20	20	16.5	19.4	83	97	64-127	16	21	
Bromochloromethane	ug/L	ND	20	20	17.8	19.8	89	99	66-136	10	22	
Bromodichloromethane	ug/L	ND	20	20	17.1	19.3	86	97	65-138	12	23	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

Parameter	2512450001		MS		MSD		MS		MSD		MS		MSD		% Rec		Max		Qual
	Units	Result	Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	MSD % Rec	RPD	RPD	RPD	RPD					
Bromoform	ug/L	ND	20	20	15.7	17.8	78	89	51-119	13	23								
Bromomethane	ug/L	ND	20	20	22.5	22.9	113	114	40-158	2	26								
Carbon disulfide	ug/L	ND	20	20	18.4	20.7	92	103	56-158	11	23								
Carbon tetrachloride	ug/L	ND	20	20	18.1	21.0	91	105	66-152	15	22								
Chlorobenzene	ug/L	ND	20	20	15.9	18.5	80	92	68-128	15	27								
Chloroethane	ug/L	ND	20	20	20.8	20.0	104	100	49-154	4	25								
Chloroform	ug/L	ND	20	20	17.4	20.1	87	101	69-137	15	21								
Chloromethane	ug/L	ND	20	20	21.5	20.5	107	103	40-160	4	25								
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.1	20.7	90	103	69-147	13	21								
cis-1,3-Dichloropropene	ug/L	ND	10	10	8.6	9.9	86	99	60-141	14	23								
Dibromochloromethane	ug/L	ND	20	20	16.5	18.7	82	94	56-125	13	23								
Dibromomethane	ug/L	ND	20	20	17.1	18.7	86	93	63-137	9	23								
Dichlorodifluoromethane	ug/L	ND	20	20	19.8	20.5	99	103	40-160	3	24								
Ethylbenzene	ug/L	ND	20	20	17.7	20.4	86	99	65-135	14	25								
Hexachloro-1,3-butadiene	ug/L	ND	20	20	15.5	19.6	78	98	50-149	23	19	D6							
Isopropylbenzene (Cumene)	ug/L	1.7	20	20	18.8	21.5	86	99	64-137	13	27								
m&p-Xylene	ug/L	2.5	40	40	36.1	41.4	84	97	63-134	14	25								
Methyl-tert-butyl ether	ug/L	ND	20	20	17.1	19.1	85	96	59-143	11	26								
Methylene chloride	ug/L	ND	20	20	17.3	19.5	87	97	52-133	12	23								
n-Butylbenzene	ug/L	ND	20	20	16.1	20.1	79	99	65-143	22	20	D6							
n-Propylbenzene	ug/L	1.5	20	20	17.4	20.2	79	94	64-141	15	25								
Naphthalene	ug/L	5.6	20	20	16.1	19.1	52	68	48-141	18	29								
o-Xylene	ug/L	ND	20	20	17.5	19.9	85	97	68-131	13	23								
p-Isopropyltoluene	ug/L	ND	20	20	15.3	18.2	76	91	69-137	18	21								
sec-Butylbenzene	ug/L	ND	20	20	16.4	19.5	81	97	69-139	18	20								
Styrene	ug/L	ND	20	20	16.5	19.0	83	95	67-135	14	23								
tert-Butylbenzene	ug/L	ND	20	20	16.0	18.9	80	95	61-129	17	21								
Tetrachloroethene	ug/L	ND	20	20	16.8	19.5	84	97	40-122	15	21								
Toluene	ug/L	ND	20	20	17.7	20.0	84	96	64-128	12	24								
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.5	19.9	87	99	66-150	13	21								
trans-1,3-Dichloropropene	ug/L	ND	10	10	7.2	8.1	72	81	51-116	12	23								
Trichloroethene	ug/L	ND	20	20	17.2	19.6	86	98	68-135	13	21								
Trichlorofluoromethane	ug/L	ND	20	20	22.6	22.4	113	112	54-160	.9	23								
Vinyl chloride	ug/L	ND	20	20	23.7	22.7	118	113	45-155	4	22								
Xylene (Total)	ug/L	3.1	60	60	53.6	61.3	84	97	65-133	13	25								
1,2-Dichloroethane-d4 (S)	%						97	96	72-127										
4-Bromofluorobenzene (S)	%						89	89	79-121										
Dibromofluoromethane (S)	%						101	100	81-119										
Toluene-d8 (S)	%						100	100	77-120										

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: MSV/7077 Analysis Method: EPA 5030B/8260  
 QC Batch Method: EPA 5030B/8260 Analysis Description: 8260 MSV Water 10 mL Purge  
 Associated Lab Samples: 2512228008, 2512228009, 2512228010, 2512228011, 2512228012, 2512228013, 2512228014

METHOD BLANK: 116782 Matrix: Water  
 Associated Lab Samples: 2512228008, 2512228009, 2512228010, 2512228011, 2512228012, 2512228013, 2512228014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,1-Trichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,2,2-Tetrachloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1,2-Trichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
1,1-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,3-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,3-Trichloropropane	ug/L	<0.20	1.0	05/26/12 15:46	
1,2,4-Trichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2,4-Trimethylbenzene	ug/L	0.11J	1.0	05/26/12 15:46	
1,2-Dibromo-3-chloropropane	ug/L	<0.50	5.0	05/26/12 15:46	
1,2-Dibromoethane (EDB)	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
1,2-Dichloroethene (Total)	ug/L	<0.20	2.0	05/26/12 15:46	
1,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
1,3,5-Trimethylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,3-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
1,3-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
1,4-Dichlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
2,2-Dichloropropane	ug/L	<0.10	1.0	05/26/12 15:46	
2-Butanone (MEK)	ug/L	<1.0	5.0	05/26/12 15:46	
2-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 15:46	
2-Hexanone	ug/L	<1.0	5.0	05/26/12 15:46	
4-Chlorotoluene	ug/L	<0.10	1.0	05/26/12 15:46	
4-Methyl-2-pentanone (MIBK)	ug/L	<1.0	5.0	05/26/12 15:46	
Acetone	ug/L	1.9J	5.0	05/26/12 15:46	
Benzene	ug/L	<0.10	1.0	05/26/12 15:46	
Bromobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Bromochloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Bromodichloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Bromoform	ug/L	<0.10	1.0	05/26/12 15:46	
Bromomethane	ug/L	<0.10	1.0	05/26/12 15:46	
Carbon disulfide	ug/L	<0.10	1.0	05/26/12 15:46	
Carbon tetrachloride	ug/L	<0.10	1.0	05/26/12 15:46	
Chlorobenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Chloroethane	ug/L	<0.10	1.0	05/26/12 15:46	
Chloroform	ug/L	<0.10	1.0	05/26/12 15:46	
Chloromethane	ug/L	<0.10	1.0	05/26/12 15:46	
cis-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
cis-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
Dibromochloromethane	ug/L	<0.10	1.0	05/26/12 15:46	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

METHOD BLANK: 116782

Matrix: Water

Associated Lab Samples: 2512228008, 2512228009, 2512228010, 2512228011, 2512228012, 2512228013, 2512228014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromomethane	ug/L	<0.10	1.0	05/26/12 15:46	
Dichlorodifluoromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Ethylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Hexachloro-1,3-butadiene	ug/L	<0.10	1.0	05/26/12 15:46	
Isopropylbenzene (Cumene)	ug/L	<0.10	1.0	05/26/12 15:46	
m&p-Xylene	ug/L	<0.20	2.0	05/26/12 15:46	
Methyl-tert-butyl ether	ug/L	<0.10	1.0	05/26/12 15:46	
Methylene chloride	ug/L	2.3J	5.0	05/26/12 15:46	
n-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
n-Propylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Naphthalene	ug/L	<0.10	1.0	05/26/12 15:46	
o-Xylene	ug/L	<0.10	1.0	05/26/12 15:46	
p-Isopropyltoluene	ug/L	<0.10	1.0	05/26/12 15:46	
sec-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Styrene	ug/L	<0.10	1.0	05/26/12 15:46	
tert-Butylbenzene	ug/L	<0.10	1.0	05/26/12 15:46	
Tetrachloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
Toluene	ug/L	<0.10	1.0	05/26/12 15:46	
trans-1,2-Dichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
trans-1,3-Dichloropropene	ug/L	<0.10	1.0	05/26/12 15:46	
Trichloroethene	ug/L	<0.10	1.0	05/26/12 15:46	
Trichlorofluoromethane	ug/L	<0.10	1.0	05/26/12 15:46	
Vinyl chloride	ug/L	<0.10	1.0	05/26/12 15:46	
Xylene (Total)	ug/L	<0.30	3.0	05/26/12 15:46	
1,2-Dichloroethane-d4 (S)	%	100	72-127	05/26/12 15:46	
4-Bromofluorobenzene (S)	%	105	79-121	05/26/12 15:46	
Dibromofluoromethane (S)	%	101	81-119	05/26/12 15:46	
Toluene-d8 (S)	%	101	77-120	05/26/12 15:46	

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.5	92	70-122	
1,1,1-Trichloroethane	ug/L	20	18.6	93	67-131	
1,1,2,2-Tetrachloroethane	ug/L	20	17.3	86	62-133	
1,1,2-Trichloroethane	ug/L	20	18.6	93	68-122	
1,1-Dichloroethane	ug/L	20	18.3	92	70-125	
1,1-Dichloroethene	ug/L	20	18.8	94	69-142	
1,1-Dichloropropene	ug/L	20	19.4	97	67-129	
1,2,3-Trichlorobenzene	ug/L	20	15.6	78	60-132	
1,2,3-Trichloropropane	ug/L	20	18.1	91	65-120	
1,2,4-Trichlorobenzene	ug/L	20	15.8	79	62-127	
1,2,4-Trimethylbenzene	ug/L	20	17.9	90	71-122	
1,2-Dibromo-3-chloropropane	ug/L	20	18.5	92	55-118	
1,2-Dibromoethane (EDB)	ug/L	20	18.2	91	65-123	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichlorobenzene	ug/L	20	17.3	86	71-118	
1,2-Dichloroethane	ug/L	20	17.7	89	63-131	
1,2-Dichloroethene (Total)	ug/L	40	37.3	93	73-134	
1,2-Dichloropropane	ug/L	20	18.1	91	70-125	
1,3,5-Trimethylbenzene	ug/L	20	17.4	87	70-123	
1,3-Dichlorobenzene	ug/L	20	17.3	87	72-119	
1,3-Dichloropropane	ug/L	20	18.1	91	69-122	
1,4-Dichlorobenzene	ug/L	20	16.9	84	70-116	
2,2-Dichloropropane	ug/L	20	19.4	97	52-149	
2-Butanone (MEK)	ug/L	40	36.6	92	45-155	
2-Chlorotoluene	ug/L	20	16.7	83	69-119	
2-Hexanone	ug/L	40	36.4	91	50-151	
4-Chlorotoluene	ug/L	20	17.8	89	70-122	
4-Methyl-2-pentanone (MIBK)	ug/L	40	35.6	89	61-145	
Acetone	ug/L	40	38.0	95	40-160	
Benzene	ug/L	20	16.1	80	66-123	
Bromobenzene	ug/L	20	18.0	90	68-118	
Bromochloromethane	ug/L	20	18.8	94	72-128	
Bromodichloromethane	ug/L	20	18.2	91	68-129	
Bromoform	ug/L	20	17.4	87	54-118	
Bromomethane	ug/L	20	19.5	98	43-151	
Carbon disulfide	ug/L	20	18.8	94	52-142	
Carbon tetrachloride	ug/L	20	19.2	96	67-135	
Chlorobenzene	ug/L	20	17.4	87	72-116	
Chloroethane	ug/L	20	16.9	84	48-139	
Chloroform	ug/L	20	18.4	92	71-124	
Chloromethane	ug/L	20	18.1	91	40-152	
cis-1,2-Dichloroethene	ug/L	20	19.1	96	74-133	
cis-1,3-Dichloropropene	ug/L	10	9.5	95	64-132	
Dibromochloromethane	ug/L	20	18.1	91	60-121	
Dibromomethane	ug/L	20	17.9	90	69-131	
Dichlorodifluoromethane	ug/L	20	18.1	90	40-160	
Ethylbenzene	ug/L	20	18.9	94	67-122	
Hexachloro-1,3-butadiene	ug/L	20	19.1	96	55-139	
Isopropylbenzene (Cumene)	ug/L	20	18.6	93	67-124	
m&p-Xylene	ug/L	40	37.9	95	66-122	
Methyl-tert-butyl ether	ug/L	20	18.1	91	65-138	
Methylene chloride	ug/L	20	20.2	101	58-137	
n-Butylbenzene	ug/L	20	18.9	94	68-129	
n-Propylbenzene	ug/L	20	18.0	90	66-126	
Naphthalene	ug/L	20	13.9	70	59-133	
o-Xylene	ug/L	20	18.6	93	69-123	
p-Isopropyltoluene	ug/L	20	17.1	86	69-127	
sec-Butylbenzene	ug/L	20	18.2	91	68-129	
Styrene	ug/L	20	18.1	91	72-125	
tert-Butylbenzene	ug/L	20	17.7	88	58-120	
Tetrachloroethene	ug/L	20	18.9	95	40-115	
Toluene	ug/L	20	17.9	89	64-118	

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

LABORATORY CONTROL SAMPLE: 116783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
trans-1,2-Dichloroethene	ug/L	20	18.2	91	70-134	
trans-1,3-Dichloropropene	ug/L	10	7.6	76	52-115	
Trichloroethene	ug/L	20	18.0	90	69-125	
Trichlorofluoromethane	ug/L	20	19.5	98	57-155	
Vinyl chloride	ug/L	20	19.2	96	53-132	
Xylene (Total)	ug/L	60	56.5	94	68-122	
1,2-Dichloroethane-d4 (S)	%			97	72-127	
4-Bromofluorobenzene (S)	%			90	79-121	
Dibromofluoromethane (S)	%			101	81-119	
Toluene-d8 (S)	%			101	77-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117574 117575

Parameter	Units	2512090045		MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.								
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	20	578	21.2	2890	106	67-132	186	22	D6,E, M1
1,1,1-Trichloroethane	ug/L	ND	20	20	20	793	22.1	3970	110	67-145	189	22	D6,E, M1
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20	267	19.8	1340	99	65-135	172	23	D6,E, M1
1,1,2-Trichloroethane	ug/L	ND	20	20	20	580	20.9	2900	105	67-126	186	22	D6,E, M1
1,1-Dichloroethane	ug/L	ND	20	20	20	782	21.9	3910	110	69-138	189	21	D6,E, M1
1,1-Dichloroethene	ug/L	ND	20	20	20	810	22.2	4050	111	68-160	189	21	D6,E, M1
1,1-Dichloropropene	ug/L	ND	20	20	20	802	22.4	4010	112	68-145	189	22	D6,E, M1
1,2,3-Trichlorobenzene	ug/L	ND	20	20	20	196	19.3	978	96	57-131	164	30	D6,M1
1,2,3-Trichloropropane	ug/L	ND	20	20	20	278	21.0	1390	105	61-123	172	24	D6,E, M1
1,2,4-Trichlorobenzene	ug/L	ND	20	20	20	196	19.8	981	99	58-130	163	24	D6,M1
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20	274	20.7	1370	103	60-136	172	24	D6,E, M1
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20	20	262	21.3	1310	107	48-127	170	25	D6,E, M1
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	20	576	20.9	2880	105	61-127	186	25	D6,E, M1
1,2-Dichlorobenzene	ug/L	ND	20	20	20	271	20.6	1350	103	67-126	172	21	D6,E, M1
1,2-Dichloroethane	ug/L	ND	20	20	20	746	20.5	3730	103	60-138	189	23	D6,E, M1
1,2-Dichloroethene (Total)	ug/L	ND	40	40	40	1570	43.0	3920	108	70-146	189	22	D6,E, M1
1,2-Dichloropropane	ug/L	ND	20	20	20	751	21.1	3760	105	67-138	189	22	D6,E, M1
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20	272	20.5	1360	103	64-135	172	25	D6,E, M1
1,3-Dichlorobenzene	ug/L	ND	20	20	20	270	20.8	1350	104	69-128	171	21	D6,E, M1

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

Parameter	Units	2512090045		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec								
1,3-Dichloropropane	ug/L	ND	20	20	566	20.3	2830	102	65-128	186	22	D6,E, M1				
1,4-Dichlorobenzene	ug/L	ND	20	20	256	20.3	1280	102	66-124	171	28	D6,E, M1				
2,2-Dichloropropane	ug/L	ND	20	20	735	20.1	3680	101	46-160	189	24	D6,E, M1				
2-Butanone (MEK)	ug/L	ND	40	40	1500	41.8	3750	104	40-140	189	25	D6,E, M1				
2-Chlorotoluene	ug/L	ND	20	20	264	20.1	1320	101	67-129	172	20	D6,E, M1				
2-Hexanone	ug/L	ND	40	40	1150	42.5	2870	106	42-141	186	27	D6,E, M1				
4-Chlorotoluene	ug/L	ND	20	20	281	21.2	1400	106	67-133	172	20	D6,E, M1				
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	40	1460	40.5	3650	101	54-151	189	27	D6,E, M1				
Acetone	ug/L	ND	40	40	629	47.7	1570	119	40-155	172	30	D6,E, M1				
Benzene	ug/L	ND	20	20	670	18.8	3350	94	63-138	189	24	D6,E, M1				
Bromobenzene	ug/L	ND	20	20	276	21.4	1380	107	64-127	171	21	D6,E, M1				
Bromochloromethane	ug/L	ND	20	20	765	21.4	3820	107	66-136	189	22	D6,E, M1				
Bromodichloromethane	ug/L	ND	20	20	749	21.2	3740	106	65-138	189	23	D6,E, M1				
Bromoform	ug/L	ND	20	20	356	19.1	1780	96	51-119	180	23	D6,E, M1				
Bromomethane	ug/L	ND	20	20	817	22.7	4080	114	40-158	189	26	D6,E, M1				
Carbon disulfide	ug/L	ND	20	20	806	22.2	4030	111	56-158	189	23	D6,E, M1				
Carbon tetrachloride	ug/L	ND	20	20	833	23.2	4170	116	66-152	189	22	D6,E, M1				
Chlorobenzene	ug/L	ND	20	20	535	20.1	2680	100	68-128	186	27	D6,E, M1				
Chloroethane	ug/L	ND	20	20	691	19.4	3450	97	49-154	189	25	D6,E, M1				
Chloroform	ug/L	ND	20	20	777	21.5	3890	108	69-137	189	21	D6,E, M1				
Chloromethane	ug/L	ND	20	20	825	22.7	4120	113	40-160	189	25	D6,E, M1				
cis-1,2-Dichloroethene	ug/L	ND	20	20	799	21.6	3990	108	69-147	189	21	D6,E, M1				
cis-1,3-Dichloropropene	ug/L	ND	10	10	366	10.5	3660	105	60-141	189	23	D6,E, M1				
Dibromochloromethane	ug/L	ND	20	20	558	20.3	2790	101	56-125	186	23	D6,E, M1				
Dibromomethane	ug/L	ND	20	20	734	20.8	3670	104	63-137	189	23	D6,E, M1				
Dichlorodifluoromethane	ug/L	ND	20	20	757	21.3	3790	107	40-160	189	24	D6,E, M1				
Ethylbenzene	ug/L	ND	20	20	599	22.0	3000	110	65-135	186	25	D6,E, M1				



### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117574		117575		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2512090045 Result	MS Spike Conc.	MSD Spike Conc.	MS Result										
Hexachloro-1,3-butadiene	ug/L	ND	20	20	284	22.5	1420	112	50-149	171	19	D6,E, M1			
Isopropylbenzene (Cumene)	ug/L	ND	20	20	593	21.8	2970	109	64-137	186	27	D6,E, M1			
m&p-Xylene	ug/L	ND	40	40	1190	43.3	2980	108	63-134	186	25	D6,E, M1			
Methyl-tert-butyl ether	ug/L	ND	20	20	741	20.2	3710	101	59-143	189	26	D6,E, M1			
Methylene chloride	ug/L	ND	20	20	791	21.6	3960	108	52-133	189	23	D6,E, M1			
n-Butylbenzene	ug/L	ND	20	20	296	22.8	1480	114	65-143	171	20	D6,E, M1			
n-Propylbenzene	ug/L	ND	20	20	282	21.6	1410	108	64-141	172	25	D6,E, M1			
Naphthalene	ug/L	ND	20	20	147	17.3	736	87	48-141	158	29	D6,M1			
o-Xylene	ug/L	ND	20	20	582	21.3	2910	107	68-131	186	23	D6,E, M1			
p-Isopropyltoluene	ug/L	ND	20	20	263	20.3	1310	101	69-137	171	21	D6,E, M1			
sec-Butylbenzene	ug/L	ND	20	20	285	21.8	1430	109	69-139	172	20	D6,E, M1			
Styrene	ug/L	ND	20	20	547	20.3	2730	101	67-135	186	23	D6,E, M1			
tert-Butylbenzene	ug/L	ND	20	20	277	21.1	1380	106	61-129	172	21	D6,E, M1			
Tetrachloroethene	ug/L	ND	20	20	611	21.9	3060	109	40-122	186	21	D6,E, M1			
Toluene	ug/L	ND	20	20	563	20.7	2810	103	64-128	186	24	D6,E, M1			
trans-1,2-Dichloroethene	ug/L	ND	20	20	769	21.4	3850	107	66-150	189	21	D6,E, M1			
trans-1,3-Dichloropropene	ug/L	ND	10	10	240	9.0	2400	90	51-116	186	23	D6,E, M1			
Trichloroethene	ug/L	ND	20	20	755	21.2	3780	106	68-135	189	21	D6,E, M1			
Trichlorofluoromethane	ug/L	ND	20	20	845	23.5	4230	117	54-160	189	23	D6,E, M1			
Vinyl chloride	ug/L	ND	20	20	834	23.9	4170	119	45-155	189	22	D6,E, M1			
Xylene (Total)	ug/L	ND	60	60	1770	64.6	2950	108	65-133	186	25	D6,E, M1			
1,2-Dichloroethane-d4 (S)	%							97	99	72-127					
4-Bromofluorobenzene (S)	%							56	90	79-121		IS,S0			
Dibromofluoromethane (S)	%							98	102	81-119					
Toluene-d8 (S)	%							87	101	77-120					

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512228

QC Batch: MSV/7071 Analysis Method: NWTPH-Gx  
QC Batch Method: NWTPH-Gx Analysis Description: NWTPH-Gx MSV Water  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006

METHOD BLANK: 116730 Matrix: Water  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/25/12 17:14	
4-Bromofluorobenzene (S)	%	107	50-150	05/25/12 17:14	

LABORATORY CONTROL SAMPLE: 116731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	520	104	65-139	
4-Bromofluorobenzene (S)	%			108	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 117365 117366

Parameter	Units	2512090031 Result	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
Gasoline Range Organics	ug/L	ND	500	500	534	497	105	98	48-147	7	30	
4-Bromofluorobenzene (S)	%						105	103	50-150			

SAMPLE DUPLICATE: 117367

Parameter	Units	2512090033 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	ug/L	3890	4390	12	24	E
4-Bromofluorobenzene (S)	%	97	82	169		

### QUALITY CONTROL DATA

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: MSV/7094

Analysis Method: NWTPH-Gx

QC Batch Method: NWTPH-Gx

Analysis Description: NWTPH-Gx MSV Water

Associated Lab Samples: 2512228007

METHOD BLANK: 117096

Matrix: Water

Associated Lab Samples: 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	ug/L	<25.0	50.0	05/26/12 03:43	
4-Bromofluorobenzene (S)	%	107	50-150	05/26/12 03:43	

LABORATORY CONTROL SAMPLE: 117097

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	ug/L	500	524	105	65-139	
4-Bromofluorobenzene (S)	%			97	50-150	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 118011

118012

Parameter	Units	2512090039		MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits			
Gasoline Range Organics	ug/L	177	500	500	721	705	109	106	48-147	2	30	
4-Bromofluorobenzene (S)	%						96	96	50-150			

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

QC Batch: OEXT/5553 Analysis Method: NWTPH-Dx  
 QC Batch Method: EPA 3546 Analysis Description: NWTPH-Dx GCS  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

METHOD BLANK: 116121 Matrix: Solid  
 Associated Lab Samples: 2512228016, 2512228021, 2512228023, 2512228031, 2512228032

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/kg	<8.0	16.0	05/24/12 19:10	
Motor Oil Range SG	mg/kg	<32.0	64.0	05/24/12 19:10	
n-Octacosane (S) SG	%	109	50-150	05/24/12 19:10	
o-Terphenyl (S) SG	%	98	50-150	05/24/12 19:10	

LABORATORY CONTROL SAMPLE: 116122

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/kg	400	336	84	69-113	
Motor Oil Range SG	mg/kg	400	404	101	75-119	
n-Octacosane (S) SG	%			101	50-150	
o-Terphenyl (S) SG	%			92	50-150	

SAMPLE DUPLICATE: 116123

Parameter	Units	2512228015 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/kg		<7.8			
Motor Oil Range SG	mg/kg		<31.1			
n-Octacosane (S) SG	%		112			
o-Terphenyl (S) SG	%		101			

SAMPLE DUPLICATE: 116124

Parameter	Units	2512228027 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/kg		<7.7			
Motor Oil Range SG	mg/kg		<30.9			
n-Octacosane (S) SG	%		110			
o-Terphenyl (S) SG	%		100			

### QUALITY CONTROL DATA

Project: Heritage Square  
Pace Project No.: 2512228

QC Batch: OEXT/5566 Analysis Method: NWTPH-Dx  
QC Batch Method: EPA 3510 Analysis Description: NWTPH-Dx GCS SG  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006, 2512228007

METHOD BLANK: 116654 Matrix: Water  
Associated Lab Samples: 2512228001, 2512228002, 2512228003, 2512228004, 2512228005, 2512228006, 2512228007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range SG	mg/L	<0.040	0.080	05/30/12 20:22	
Motor Oil Range SG	mg/L	<0.20	0.40	05/30/12 20:22	
n-Octacosane (S) SG	%	104	50-150	05/30/12 20:22	
o-Terphenyl (S) SG	%	94	50-150	05/30/12 20:22	

LABORATORY CONTROL SAMPLE: 116655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range SG	mg/L	4	3.4	84	59-114	
Motor Oil Range SG	mg/L	4	3.7	92	69-124	
n-Octacosane (S) SG	%			83	50-150	
o-Terphenyl (S) SG	%			79	50-150	

SAMPLE DUPLICATE: 116656

Parameter	Units	2512191005 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	577 ug/L	0.57	.7	39	
Motor Oil Range SG	mg/L	ND	<0.19		38	
n-Octacosane (S) SG	%	96	99	.8		
o-Terphenyl (S) SG	%	90	92	2		

SAMPLE DUPLICATE: 116657

Parameter	Units	2512228006 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Range SG	mg/L	<0.046	<0.044		39	
Motor Oil Range SG	mg/L	<0.23	<0.22		38	
n-Octacosane (S) SG	%	101	95	9		
o-Terphenyl (S) SG	%	92	83	13		

**QUALITY CONTROL DATA**

Project: Heritage Square

Pace Project No.: 2512228

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QC Batch:	PMST/2053	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	2512228016, 2512228021, 2512228023, 2512228031, 2512228032		

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SAMPLE DUPLICATE: 116052

Parameter	Units	2512228015 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%		19.8			

## QUALIFIERS

Project: Heritage Square

Pace Project No.: 2512228

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel Clean-Up

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

### LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

PASI-S Pace Analytical Services - Seattle

### ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

IS The internal standard response is below criteria. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

S0 Surrogate recovery outside laboratory control limits.

### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square  
Pace Project No.: 2512228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512228016	DP02-15	EPA 3546	OEXT/5553	NWTPH-Dx	GCSV/3552
2512228021	DP10-10	EPA 3546	OEXT/5553	NWTPH-Dx	GCSV/3552
2512228023	DP11-3	EPA 3546	OEXT/5553	NWTPH-Dx	GCSV/3552
2512228031	HA1-2	EPA 3546	OEXT/5553	NWTPH-Dx	GCSV/3552
2512228032	HA2-1	EPA 3546	OEXT/5553	NWTPH-Dx	GCSV/3552
2512228001	DP2S-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228002	DP2D-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228003	DP5-051712	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228004	DP10-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228005	DP11-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228006	HA1-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228007	HA2-051612	EPA 3510	OEXT/5566	NWTPH-Dx	GCSV/3564
2512228016	DP02-15	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512228021	DP10-10	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512228023	DP11-3	NWTPH-Gx	GCV/2796	NWTPH-Gx	GCV/2802
2512228031	HA1-2	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512228032	HA2-1	NWTPH-Gx	GCV/2803	NWTPH-Gx	GCV/2806
2512228016	DP02-15	EPA 6020	ICPM/32839	EPA 6020	ICPM/12965
2512228021	DP10-10	EPA 6020	ICPM/32839	EPA 6020	ICPM/12965
2512228023	DP11-3	EPA 6020	ICPM/32839	EPA 6020	ICPM/12965
2512228031	HA1-2	EPA 6020	ICPM/32839	EPA 6020	ICPM/12965
2512228032	HA2-1	EPA 6020	ICPM/32839	EPA 6020	ICPM/12965
2512228005	DP11-051612	EPA 6020	ICPM/32752	EPA 6020	ICPM/12941
2512228006	HA1-051612	EPA 6020	ICPM/32752	EPA 6020	ICPM/12941
2512228007	HA2-051612	EPA 6020	ICPM/32752	EPA 6020	ICPM/12941
2512228005	DP11-051612	EPA 6020	ICPM/32750	EPA 6020	ICPM/12951
2512228001	DP2S-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228002	DP2D-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228003	DP5-051712	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228004	DP10-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228005	DP11-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228006	HA1-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228007	HA2-051612	EPA 7470	MERP/1691	EPA 7470	MERC/1704
2512228005	DP11-051612	EPA 7470	MERP/1690	EPA 7470	MERC/1703
2512228016	DP02-15	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512228021	DP10-10	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512228023	DP11-3	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512228031	HA1-2	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512228032	HA2-1	EPA 7471	MERP/1695	EPA 7471	MERC/1708
2512228007	HA2-051612	EPA 5030B/8260	MSV/7075		
2512228008	TB1-051712	EPA 5030B/8260	MSV/7077		
2512228009	TB2-051712	EPA 5030B/8260	MSV/7077		
2512228010	TB3-051712	EPA 5030B/8260	MSV/7077		



### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Heritage Square

Pace Project No.: 2512228

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2512228011	TB4-051712	EPA 5030B/8260	MSV/7077		
2512228012	TB5-051712	EPA 5030B/8260	MSV/7077		
2512228013	TB6-051712	EPA 5030B/8260	MSV/7077		
2512228014	TB7-051712	EPA 5030B/8260	MSV/7077		
2512228001	DP2S-051612	NWTPH-Gx	MSV/7071		
2512228002	DP2D-051612	NWTPH-Gx	MSV/7071		
2512228003	DP5-051712	NWTPH-Gx	MSV/7071		
2512228004	DP10-051612	NWTPH-Gx	MSV/7071		
2512228005	DP11-051612	NWTPH-Gx	MSV/7071		
2512228006	HA1-051612	NWTPH-Gx	MSV/7071		
2512228007	HA2-051612	NWTPH-Gx	MSV/7094		
2512228016	DP02-15	ASTM D2974-87	PMST/2053		
2512228021	DP10-10	ASTM D2974-87	PMST/2053		
2512228023	DP11-3	ASTM D2974-87	PMST/2053		
2512228031	HA1-2	ASTM D2974-87	PMST/2053		
2512228032	HA2-1	ASTM D2974-87	PMST/2053		



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**Pace Analytical Seattle**  
Dan Gossett  
940 South Harney  
Seattle, Washington 98108

**RE: Heritage Square**  
**Lab ID: 1206092**

June 13, 2012

**Attention Dan Gossett:**

Fremont Analytical, Inc. received 4 sample(s) on 6/12/2012 for the analyses presented in the following report.

***Total Metals by EPA Method 6020***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements  
Sr. Chemist / Lab Manager



Date: 06/13/2012

---

**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square  
**Lab Order:** 1206092

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1206092-001	DP2S-051612	05/16/2012 11:15 AM	06/12/2012 3:30 PM
1206092-002	DP2D-051612	05/16/2012 12:45 PM	06/12/2012 3:30 PM
1206092-003	DP5-051712	05/17/2012 8:30 AM	06/12/2012 3:30 PM
1206092-004	DP10-051612	05/16/2012 6:00 PM	06/12/2012 3:30 PM

**CLIENT:** Pace Analytical Seattle**Project:** Heritage Square

---

**I. SAMPLE RECEIPT:**

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1206092

Date Reported: 6/13/2012

**CLIENT:** Pace Analytical Seattle

**Project:** Heritage Square

**Lab ID:** 1206092-001

**Collection Date:** 5/16/2012 11:15:00 AM

**Client Sample ID:** DP2S-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	1.16	1.00		µg/L	1	6/13/2012 3:07:49 AM
Barium	43.1	0.500		µg/L	1	6/13/2012 3:07:49 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:07:49 AM
Chromium	2.92	0.500		µg/L	1	6/13/2012 3:07:49 AM
Lead	39.3	1.00		µg/L	1	6/13/2012 3:07:49 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:07:49 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:07:49 AM

**Lab ID:** 1206092-002

**Collection Date:** 5/16/2012 12:45:00 PM

**Client Sample ID:** DP2D-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	21.6	1.00		µg/L	1	6/13/2012 3:26:13 AM
Barium	37.6	0.500		µg/L	1	6/13/2012 3:26:13 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:26:13 AM
Chromium	5.40	0.500		µg/L	1	6/13/2012 3:26:13 AM
Lead	7.01	1.00		µg/L	1	6/13/2012 3:26:13 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:26:13 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:26:13 AM

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RL Reporting Limit

- D Dilution was required
- H Holding times for preparation or analysis exceeded
- ND Not detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1206092

Date Reported: 6/13/2012

**CLIENT:** Pace Analytical Seattle

**Project:** Heritage Square

**Lab ID:** 1206092-003

**Collection Date:** 5/17/2012 8:30:00 AM

**Client Sample ID:** DP5-051712

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	ND	1.00		µg/L	1	6/13/2012 3:35:25 AM
Barium	20.1	0.500		µg/L	1	6/13/2012 3:35:25 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:35:25 AM
Chromium	0.974	0.500		µg/L	1	6/13/2012 3:35:25 AM
Lead	0.618	1.00	J	µg/L	1	6/13/2012 3:35:25 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:35:25 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:35:25 AM

**Lab ID:** 1206092-004

**Collection Date:** 5/16/2012 6:00:00 PM

**Client Sample ID:** DP10-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	0.515	1.00	J	µg/L	1	6/13/2012 3:44:37 AM
Barium	50.1	0.500		µg/L	1	6/13/2012 3:44:37 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:44:37 AM
Chromium	1.36	0.500		µg/L	1	6/13/2012 3:44:37 AM
Lead	30.0	1.00		µg/L	1	6/13/2012 3:44:37 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:44:37 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:44:37 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits

**Work Order:** 1206092  
**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>MB-2601</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83944</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Barium	ND	0.500									
Cadmium	ND	0.200									
Chromium	ND	0.500									
Lead	ND	1.00									
Selenium	ND	1.00									
Silver	ND	0.200									

Sample ID: <b>LCS-2601</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83945</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	1.00	100.0	0	102	80	120				
Barium	100	0.500	100.0	0	100	80	120				
Cadmium	4.86	0.200	5.000	0	97.2	80	120				
Chromium	102	0.500	100.0	0	102	80	120				
Lead	47.1	1.00	50.00	0	94.2	80	120				
Selenium	9.71	1.00	10.00	0	97.1	80	120				
Silver	4.34	0.200	5.000	0	86.9	80	120				

Sample ID: <b>1206092-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>DP2S-051612</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83947</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.858	1.00						1.165	30.4	30	JR
Barium	44.2	0.500						43.10	2.41	30	

**Qualifiers:**
B Analyte detected in the associated Method Blank
D Dilution was required
E Value above quantitation range  
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not detected at the Reporting Limit  
R RPD outside accepted recovery limits
RL Reporting Limit
S Spike recovery outside accepted recovery limits

**Work Order:** 1206092  
**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1206092-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>DP2S-051612</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83947</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.200						0	0	30	
Chromium	2.91	0.500						2.919	0.309	30	
Lead	39.7	1.00						39.29	1.01	30	
Selenium	ND	1.00						0	0	30	
Silver	ND	0.200						0	0	30	

Sample ID: <b>1206082-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83977</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	585	1.00	500.0	10.95	115	75	125				
Barium	866	0.500	500.0	352.9	103	75	125				
Cadmium	25.1	0.200	25.00	0.8025	97.2	75	125				
Chromium	517	0.500	500.0	12.29	101	75	125				
Lead	284	1.00	250.0	63.83	88.0	75	125				
Selenium	50.2	1.00	50.00	0.8290	98.8	75	125				
Silver	15.1	0.200	25.00	0.1315	59.9	75	125				S

Sample ID: <b>1206082-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83978</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	582	1.00	500.0	10.95	114	75	125	585.1	0.598	30	
Barium	862	0.500	500.0	352.9	102	75	125	866.5	0.551	30	
Cadmium	24.7	0.200	25.00	0.8025	95.5	75	125	25.10	1.75	30	
Chromium	509	0.500	500.0	12.29	99.3	75	125	516.5	1.52	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits



**Work Order:** 1206092  
**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1206082-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83978</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	276	1.00	250.0	63.83	84.9	75	125	283.9	2.80	30	
Selenium	51.9	1.00	50.00	0.8290	102	75	125	50.25	3.26	30	
Silver	14.9	0.200	25.00	0.1315	59.1	75	125	15.11	1.37	30	S

**NOTES:**  
 S - Spike recovery indicates a matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).  
 S - Spike recovery indicates a matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).

<b>Qualifiers:</b> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
---	---	---

Client Name: **PACE**

 Work Order Number: **1206092**

 Logged by: **Clare Griggs**

 Date Received: **6/12/2012 3:30:00 PM**
**Chain of Custody**

1. Were custodial seals present? Yes  No  Not Required
2. Is Chain of Custody complete? Yes  No  Not Present
3. How was the sample delivered? Client

**Log In**

4. Coolers are present? Yes  No  NA
5. Was an attempt made to cool the samples? Yes  No  NA

**Metals Water (No Hg)**

6. Were all coolers received at a temperature of >0° C to 10.0°C Yes  No  NA
7. Sample(s) in proper container(s)? Yes  No
8. Sufficient sample volume for indicated test(s)? Yes  No
9. Are samples properly preserved? Yes  No
10. Was preservative added to bottles? Yes  No  NA
11. Is there headspace present in VOA vials? Yes  No  NA
12. Did all sample containers arrive in good condition?(unbroken) Yes  No
13. Does paperwork match bottle labels? Yes  No
14. Are matrices correctly identified on Chain of Custody? Yes  No
15. Is it clear what analyses were requested? Yes  No
16. Were all holding times able to be met? Yes  No

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks/Disrepancies

**Item Information**

1206092



# Chain of Custody

ASAP

Results Requested 5/25/2012

Workorder Name: Heritage Square

Workorder: 2512228

1311 N 35th St P.O.  
Seattle WA  
Trenton

Dan Gossett  
Pace Analytical Seattle  
940 South Harney  
Seattle, WA 98108  
Phone (206)767-5060  
Email: dan.gossett@pacelabs.com

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Requested Analysis
1	DP2S-051612	5/16/2012 11:15	2512228001	Water		
2	DP2D-051612	5/16/2012 12:45	2512228002	Water		
3	DP5-051712	5/17/2012 08:30	2512228003	Water		
4	DP10-051612	5/16/2012 19:00	2512228004	Water		
5						

XX Total As, Ag, Ba  
Cd, Pb, Se by GC

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	5/12/12 15:30	<i>[Signature]</i>	6/12/12 15:30	Report to MDC
2					Thanks!!
3					

Cooler Temperature on Receipt NA °C    Custody Seal Y or N    Received on Ice Y or N    Samples Intact Y or N

Metal water



1311 N. 35th St.  
Seattle, WA 98103  
T: (206) 352-3790  
F: (206) 352-7178  
info@fremontanalytical.com

**Pace Analytical Seattle**  
Dan Gossett  
940 South Harney  
Seattle, Washington 98108

**RE: Heritage Square**  
**Lab ID: 1206092**

June 13, 2012

**Attention Dan Gossett:**

Fremont Analytical, Inc. received 4 sample(s) on 6/12/2012 for the analyses presented in the following report.

***Total Metals by EPA Method 6020***

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Clements", written over a light blue horizontal line.

Michelle Clements  
Sr. Chemist / Lab Manager



Date: 06/13/2012

---

**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square  
**Lab Order:** 1206092

## Work Order Sample Summary

---

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1206092-001	DP2S-051612	05/16/2012 11:15 AM	06/12/2012 3:30 PM
1206092-002	DP2D-051612	05/16/2012 12:45 PM	06/12/2012 3:30 PM
1206092-003	DP5-051712	05/17/2012 8:30 AM	06/12/2012 3:30 PM
1206092-004	DP10-051612	05/16/2012 6:00 PM	06/12/2012 3:30 PM

**CLIENT:** Pace Analytical Seattle**Project:** Heritage Square

---

**I. SAMPLE RECEIPT:**

All samples were received intact. The internal ice chest temperatures were measured on receipt and are recorded on the attached Sample Receipt Checklist.

**II. GENERAL REPORTING COMMENTS:**

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

**III. ANALYSES AND EXCEPTIONS:**

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



# Analytical Report

WO#: 1206092

Date Reported: 6/13/2012

**CLIENT:** Pace Analytical Seattle

**Project:** Heritage Square

**Lab ID:** 1206092-001

**Collection Date:** 5/16/2012 11:15:00 AM

**Client Sample ID:** DP2S-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	1.16	1.00		µg/L	1	6/13/2012 3:07:49 AM
Barium	43.1	0.500		µg/L	1	6/13/2012 3:07:49 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:07:49 AM
Chromium	2.92	0.500		µg/L	1	6/13/2012 3:07:49 AM
Lead	39.3	1.00		µg/L	1	6/13/2012 3:07:49 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:07:49 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:07:49 AM

**Lab ID:** 1206092-002

**Collection Date:** 5/16/2012 12:45:00 PM

**Client Sample ID:** DP2D-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	21.6	1.00		µg/L	1	6/13/2012 3:26:13 AM
Barium	37.6	0.500		µg/L	1	6/13/2012 3:26:13 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:26:13 AM
Chromium	5.40	0.500		µg/L	1	6/13/2012 3:26:13 AM
Lead	7.01	1.00		µg/L	1	6/13/2012 3:26:13 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:26:13 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:26:13 AM

**Qualifiers:**

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RL Reporting Limit

- D Dilution was required
- H Holding times for preparation or analysis exceeded
- ND Not detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits



# Analytical Report

WO#: 1206092

Date Reported: 6/13/2012

**CLIENT:** Pace Analytical Seattle

**Project:** Heritage Square

**Lab ID:** 1206092-003

**Collection Date:** 5/17/2012 8:30:00 AM

**Client Sample ID:** DP5-051712

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	ND	1.00		µg/L	1	6/13/2012 3:35:25 AM
Barium	20.1	0.500		µg/L	1	6/13/2012 3:35:25 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:35:25 AM
Chromium	0.974	0.500		µg/L	1	6/13/2012 3:35:25 AM
Lead	0.618	1.00	J	µg/L	1	6/13/2012 3:35:25 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:35:25 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:35:25 AM

**Lab ID:** 1206092-004

**Collection Date:** 5/16/2012 6:00:00 PM

**Client Sample ID:** DP10-051612

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

**Total Metals by EPA Method 6020**

Batch ID: 2601

Analyst: SG

Arsenic	0.515	1.00	J	µg/L	1	6/13/2012 3:44:37 AM
Barium	50.1	0.500		µg/L	1	6/13/2012 3:44:37 AM
Cadmium	ND	0.200		µg/L	1	6/13/2012 3:44:37 AM
Chromium	1.36	0.500		µg/L	1	6/13/2012 3:44:37 AM
Lead	30.0	1.00		µg/L	1	6/13/2012 3:44:37 AM
Selenium	ND	1.00		µg/L	1	6/13/2012 3:44:37 AM
Silver	ND	0.200		µg/L	1	6/13/2012 3:44:37 AM

**Qualifiers:** B Analyte detected in the associated Method Blank  
 E Value above quantitation range  
 J Analyte detected below quantitation limits  
 RL Reporting Limit

D Dilution was required  
 H Holding times for preparation or analysis exceeded  
 ND Not detected at the Reporting Limit  
 S Spike recovery outside accepted recovery limits





Date: 6/13/2012

Work Order: 1206092  
 CLIENT: Pace Analytical Seattle  
 Project: Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>MB-2601</b>	SampType: <b>MBLK</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83944</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	ND	1.00									
Barium	ND	0.500									
Cadmium	ND	0.200									
Chromium	ND	0.500									
Lead	ND	1.00									
Selenium	ND	1.00									
Silver	ND	0.200									

Sample ID: <b>LCS-2601</b>	SampType: <b>LCS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83945</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	102	1.00	100.0	0	102	80	120				
Barium	100	0.500	100.0	0	100	80	120				
Cadmium	4.86	0.200	5.000	0	97.2	80	120				
Chromium	102	0.500	100.0	0	102	80	120				
Lead	47.1	1.00	50.00	0	94.2	80	120				
Selenium	9.71	1.00	10.00	0	97.1	80	120				
Silver	4.34	0.200	5.000	0	86.9	80	120				

Sample ID: <b>1206092-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>DP2S-051612</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83947</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Arsenic	0.858	1.00						1.165	30.4	30	JR
Barium	44.2	0.500						43.10	2.41	30	

**Qualifiers:** B Analyte detected in the associated Method Blank      D Dilution was required      E Value above quantitation range  
 H Holding times for preparation or analysis exceeded      J Analyte detected below quantitation limits      ND Not detected at the Reporting Limit  
 R RPD outside accepted recovery limits      RL Reporting Limit      S Spike recovery outside accepted recovery limits

**Work Order:** 1206092  
**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1206092-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>DP2S-051612</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83947</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Cadmium	ND	0.200						0	0	30	
Chromium	2.91	0.500						2.919	0.309	30	
Lead	39.7	1.00						39.29	1.01	30	
Selenium	ND	1.00						0	0	30	
Silver	ND	0.200						0	0	30	

Sample ID: <b>1206082-001AMS</b>	SampType: <b>MS</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83977</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	585	1.00	500.0	10.95	115	75	125				
Barium	866	0.500	500.0	352.9	103	75	125				
Cadmium	25.1	0.200	25.00	0.8025	97.2	75	125				
Chromium	517	0.500	500.0	12.29	101	75	125				
Lead	284	1.00	250.0	63.83	88.0	75	125				
Selenium	50.2	1.00	50.00	0.8290	98.8	75	125				
Silver	15.1	0.200	25.00	0.1315	59.9	75	125				S

Sample ID: <b>1206082-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83978</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	582	1.00	500.0	10.95	114	75	125	585.1	0.598	30	
Barium	862	0.500	500.0	352.9	102	75	125	866.5	0.551	30	
Cadmium	24.7	0.200	25.00	0.8025	95.5	75	125	25.10	1.75	30	
Chromium	509	0.500	500.0	12.29	99.3	75	125	516.5	1.52	30	

**Qualifiers:**

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

**Work Order:** 1206092  
**CLIENT:** Pace Analytical Seattle  
**Project:** Heritage Square

**QC SUMMARY REPORT**  
**Total Metals by EPA Method 6020**

Sample ID: <b>1206082-001AMSD</b>	SampType: <b>MSD</b>	Units: <b>µg/L</b>	Prep Date: <b>6/12/2012</b>	RunNo: <b>4588</b>
Client ID: <b>BATCH</b>	Batch ID: <b>2601</b>		Analysis Date: <b>6/13/2012</b>	SeqNo: <b>83978</b>

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	276	1.00	250.0	63.83	84.9	75	125	283.9	2.80	30	
Selenium	51.9	1.00	50.00	0.8290	102	75	125	50.25	3.26	30	
Silver	14.9	0.200	25.00	0.1315	59.1	75	125	15.11	1.37	30	S

**NOTES:**  
 S - Spike recovery indicates a matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).  
 S - Spike recovery indicates a matrix effect. The method is in control as indicated by the Laboratory Control Sample (LCS).

<b>Qualifiers:</b> B Analyte detected in the associated Method Blank H Holding times for preparation or analysis exceeded R RPD outside accepted recovery limits	D Dilution was required J Analyte detected below quantitation limits RL Reporting Limit	E Value above quantitation range ND Not detected at the Reporting Limit S Spike recovery outside accepted recovery limits
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Client Name: **PACE**

 Work Order Number: **1206092**

 Logged by: **Clare Griggs**

 Date Received: **6/12/2012 3:30:00 PM**
**Chain of Custody**

1. Were custodial seals present? Yes  No  Not Required
2. Is Chain of Custody complete? Yes  No  Not Present
3. How was the sample delivered? Client

**Log In**

4. Coolers are present? Yes  No  NA
5. Was an attempt made to cool the samples? Yes  No  NA

**Metals Water (No Hg)**

6. Were all coolers received at a temperature of >0° C to 10.0°C Yes  No  NA
7. Sample(s) in proper container(s)? Yes  No
8. Sufficient sample volume for indicated test(s)? Yes  No
9. Are samples properly preserved? Yes  No
10. Was preservative added to bottles? Yes  No  NA
11. Is there headspace present in VOA vials? Yes  No  NA
12. Did all sample containers arrive in good condition?(unbroken) Yes  No
13. Does paperwork match bottle labels? Yes  No
14. Are matrices correctly identified on Chain of Custody? Yes  No
15. Is it clear what analyses were requested? Yes  No
16. Were all holding times able to be met? Yes  No

**Special Handling (if applicable)**

17. Was client notified of all discrepancies with this order? Yes  No  NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

18. Additional remarks/Disrepancies

**Item Information**

1206092



# Chain of Custody

ASAP

Results Requested 5/25/2012

Workorder Name: Heritage Square

Workorder: 2512228

1311 N 35th St P.O.  
Seattle WA  
Trenton

Dan Gossett  
Pace Analytical Seattle  
940 South Harney  
Seattle, WA 98108  
Phone (206)767-5060  
Email: dan.gossett@pacelabs.com

Item	Sample ID	Collect Date/Time	Lab ID	Matrix	Preserved Containers	ECM#	LAB USE ONLY
1	DP2S-051612	5/16/2012 11:15	2512228001	Water			
2	DP2D-051612	5/16/2012 12:45	2512228002	Water			
3	DP5-051712	5/17/2012 08:30	2512228003	Water			
4	DP10-051612	5/16/2012 19:00	2512228004	Water			
5							

XX XX Total As, Ag, Ba  
Cd, Pb, Se by GC

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	5/12/12 15:30	<i>[Signature]</i>	6/12/12 15:30	Report to MDC
2					Thanks!!
3					

Cooler Temperature on Receipt NA °C    Custody Seal Y or N    Received on Ice Y or N    Samples Intact Y or N

Metal water