

**Report on  
Potential Sources Soil Investigation and  
Focused Groundwater Investigation  
Noland Decoto Flying Services  
Yakima, Washington**

**Prepared for**

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## 1.0 INTRODUCTION

This report presents the results of the Investigation of potential sources for soil contamination and suspect groundwater contamination at the Noland Decoto Site (Site) in Yakima, Washington. The Investigation field work and sample analysis, conducted in accordance with the scope and procedures outlined in the Work Plan (Hayman 2013) and reviewed by Washington Department of Ecology's (Ecology), was performed to investigate the environmental impacts to soil at three drywells and several former tank locations, and an area where groundwater reportedly had elevated petroleum concentrations.

The Site property addresses are 2804, 2806, 2806, and 2810 West Washington Avenue, Yakima, Washington. The Site is adjacent to the Yakima Air Terminal (YAT)-McAllister Field (Figure 1). The Site is enrolled in Ecology's Voluntary Cleanup Program (VCP). Pertinent VCP information is as follows:

Site Name:	Noland Decoto Flying Service
Site Manager:	Norm Hepner
Facility Site Number:	39563633
VCP Number:	CE0389

### 1.1 Objectives of the Investigation

The objective of the Investigation was to collect, develop, and evaluate sufficient information regarding the Site to enable the determination of environmental impacts, if any, from past and current activities at the Site.

The areas to be investigated were identified from four primary sources:

- A Phase I Environmental Site Assessment (ESA; Fulcrum, 2009) of the properties identified several recognized environmental conditions that were potential sources of soil contamination, including underground storage tanks (USTs) and above ground storage tanks (ASTs).
- There is a confirmed release from a heating oil UST that was removed in 2000.
- Petroleum compounds were detected in a groundwater sample collected in 2006 (JMK, 2006) near the Oil Storage Shed (OSS).
- Three dry wells on the Site that are potential sources of contamination were identified during site visits.

### 1.2 Report Organization

This report is organized as follows:

- Section 2 presents the Site background including Site history and previous environmental investigations.
- Section 3 describes the Site investigation activities conducted including the areas investigated and the samples collected in each area.
- Section 4 describes the environmental setting including the regional and site geology and hydrogeology.
- Section 5 summarizes how the Site cleanup levels were established for soil and groundwater and includes a discussion of possible exposure pathways for the Site.
- Section 6 presents the results of the sample analyses and presents the nature and extent of contamination at the Site.
- Section 7 integrates the results of this Investigation and previous environmental investigation results into a conceptual site model.
- Section 8 presents the summary of the report and the report's conclusions.
- Section 9 presents the limitations on use of this report.

## 2.0 BACKGROUND

This section describes the Site, including its known history, past and current uses; existing property features; and summarizes previous environmental investigations completed at the Site.

### 2.1 Site Description and History

The subject Site is located within the City of Yakima boundaries and southwest of the historic downtown area. The subject site is located immediately north of and adjacent to the Yakima Airport Terminal (YAT). YAT was established in 1932 with the construction of a 2,600-foot gravel landing strip and associated drainage system. Shortly after, the area was graded and surfaced for an improved runway system. In 1940, the original runways were converted to taxiways and new 5,000-foot and 4,000-foot paved runways were constructed. In 1949, the passenger terminal was constructed. In 1953 the airport installed its first Instrument Landing System. In 1974, the Air Traffic Control tower was constructed.

As part of a Phase I ESA (Fulcrum 2009) the historic occupants of the Site were identified using Yakima Polk Directories. Their findings are summarized immediately below.

Decoto Brothers Air Craft Division was first identified in the Yakima Polk Directories in 1953 at the listed address of 2801 West Washington Avenue. A change in address was noted in 1987 from odd numbered addresses to even number addresses in conjunction with relocation of West Washington Avenue from south of the subject site to north of the subject site. Beginning in 1963, multiple listings are identified for the site and are consistent with current issued addresses. The multiple listings suggest leasing of the current 2804-2808 Building by third party businesses. Identified businesses identified during the review as having operated at the subject site include the following:

- Decoto Brothers Aircraft Division, Inc.
- Dowty Aerospace
- Noland Decoto Flight Service
- Cascade Helicopters Crop Dusting
- Northwest Challenger Boats
- Horizon Concepts
- Morales, Charles
- Scuba Mule Sporting Goods
- Specialty Detail
- Burkhart Dental Supply Company
- Intermountain Cleaning Service
- Solar Graphics
- Spanton Business Forms
- Yakima Industrial Electric
- Accurate Metallurgist, Inc.
- Motor head Auto Detailing
- Ayala, Robert
- Open Door Pre Finish
- Maximum Fix Labs, Inc.
- Yakima Plastics
- Computer Professional, Inc.
- Noland, James
- Roemmich, Jacob
- Simonson, Albert
- White, Robert
- GE Aviation

## 2.2 Current Site Conditions

The general layout of the Site features and boundaries are presented in Figure 2. The site is currently comprised of two adjacent Yakima County Assessor tax parcels recognized as 181335-23001 (23001) and 181335-23007 (23007). The parcels are located immediately south of West Washington Avenue and borders the YAT.

Parcel 23001 is approximately 2.72-acres, and is located immediately south of West Washington Avenue. The parcel contains six aircraft hangar buildings and an inactive fuel storage area containing three aboveground storage tanks (ASTs). Approximately 95-percent of the parcel is covered with asphalt, concrete, or building footprint.

Parcel 23007 is approximately 5.25-acres and located immediately south of parcel 23001 and is bordered by YAT to the south. The parcel contains four aircraft hangar buildings; and three additional buildings. The first additional building is represented by the 2804, 2806, 2808 West Washington Avenue addresses (Figure 2). The second building is located in the center portion of the parcel and represents the Noland Decoto operations building, identified as 2810 West Washington Avenue. One additional building is currently unoccupied, is under renovation, and does not have an issued physical address.

### 2804, 2806, and 2808 West Washington Avenue Building

The building identified as 2804, 2806, and 2808 West Washington Avenue is located on the eastern portion of parcel 23007. The two-story building was constructed in the 1950s and is composed of concrete exterior walls on a concrete foundation, totaling approximately 26,000-square feet. The building is currently occupied by three business tenants, Solar Graphics, Inc. (2804), Accurate Metallurgy, Inc. (2806), and General Electric Aviation, Inc. (2808). The building was originally constructed as the Decoto Brothers Aircraft Division facility.

### 2810 West Washington Avenue

The building identified as 2810 West Washington Avenue is located in the center portion of parcel 23007. The building is currently occupied by Noland Decoto Flying Services, Inc. and is used for business operations including administration. The single story building was constructed in the 1950s and is composed of concrete exterior walls on a concrete foundation, totaling approximately 5,500-square feet. The building contains a customer service, lounge, and office areas on the southern portion; a shop on the northeastern portion; and additional office space on the northwestern portions of the building.

### Additional Facility Building

One additional facility building is located on the eastern portion of the parcel immediately east of the 2810 building. The single story building appeared to be of 1970s construction and composed of wood framing on a concrete slab foundation, totaling approximately 1,000-square feet. The building is currently undergoing both interior and exterior renovation activities.

### Aircraft Hangar Buildings

Ten aircraft hangar buildings are currently located throughout the Site. The buildings are constructed of either wood framing with metal exterior siding, or metal framing with metal exterior siding, dependent of age of construction. Two types of hangars are present at the site and include long, multitenant buildings, and square shaped corporate aircraft hangars. The buildings are constructed on concrete slab foundations and are not heated.

## 2.3 Adjoining Property

Property in the vicinity of the site is predominately commercially operated real estate. Immediately adjacent property includes the following:

North: Beyond West Washington Avenue, parcels include the Flightline Convenience Center and an automobile retail fueling station. Wide Hollow Creek is located north of and adjacent to this property.

East: Beyond South 28th Avenue, the parcel to the east of the site is owned and operated by General Electric Aviation Systems, a manufacturer of actuation and landing gear components for aircraft.

South: The site is bound of the south by YAT operated taxiways and runways.

West: The parcel to the west of the site is owned and operated by YAT. A segregated portion of property is operated as a FEDEX facility.

## 2.4 Previous Environmental Investigations

Prior to preparing the work plan for this investigation, previous environmental reports and Ecology's records for the site were reviewed. In addition, a site visit was conducted on December 21, 2012. The findings of the review and site visit are summarized in the work plan.

Five areas for investigation to evaluate subsurface conditions were identified. The five areas that were evaluated as part of this Investigation are presented in the section.

### 2.4.1 Dry Wells (DW)

Three dry wells were identified on the Site. They are in the southeast portion of the Site (Figure 2). Dry wells can be readily contaminated by surface releases that drain or are transported by storm water runoff into the dry well. The three Site dry wells are not known to have been previously sampled or investigated. Subsurface soil samples were collected from a soil boring adjacent to each dry well as part of the current Investigation.

### 2.4.2 Former Fuel Island and UST (FFI)

The Phase I ESA (Fulcrum, 2009) identified two vent pipes adjacent to the former concrete fueling dispenser pad northwest of the Hangar C building (Figure 2). Associated fill ports were not identified in the vicinity of the fueling dispenser island. No information or UST decommissioning documentation was identified in the Phase I ESA report. This area was investigated for the presence of USTs, aviation gasoline and jet fuel as part of the current Investigation.

### 2.4.3 Hanger A ASTs (Hanger A)

The Phase I ESA (Fulcrum, 2009) identified a former AST used to store low lead aviation gasoline at the east end of Hanger A (Figure 2). Soil staining and stressed vegetation have not been observed or identified at this location. To ensure that aviation gasoline was not released in this area soil samples were collected and analyzed as part of the current Investigation.

### 2.4.4 Former Heating Oil UST (HUST)

In November 1999, PLSA Engineering and Surveying (PLSA, 2000a) completed site assessment services associated with decommissioning (removal) of one 500-gallon heating oil UST on the north side of 2810 Building (Figure 2). The UST was found to be corroded and leaking. A single soil sample was collected from the bottom of the tank excavation and submitted for analysis by method NWTPH-Dx. The analytical results are presented in the table below.

**Soil Sample Analytical Results (mg/kg), Analytical Method NWTPH-Dx modified**

Sample Name	#2 Diesel	Motor Oil
1	3,800	250
MTCA* Cleanup Level	500	500

\*MTCA- Model Toxics Control Act

Following the discovery of impacted soil during the UST removal, three groundwater monitoring wells were installed by PLSA. Well locations are shown on Figure 2. Four quarters of groundwater monitoring were conducted (PLSA, 2000b, PLSA, 2000c, PLSA, 2001). Groundwater samples were analyzed by Method NWTPH-Dx. All analytical results were below the laboratory method detection limit (MDL). Three analytical results were above the laboratory practical quantitation limit (PQL). These three results were reported as estimated concentrations and "J" flagged. The MTCA groundwater cleanup levels were not exceeded by any of the analytes in any of the samples analyzed. The highest estimated concentration reported by the laboratory was 150 ug/L, 30% of the cleanup level. The results of the groundwater sample analyses are summarized in the following table.

**Groundwater Monitoring Analytical Results (ug/L), Analytical Method NWTPH-Dx modified**

Well Name	March 2, 2000		June 30, 2000		October 16, 2000		January 17, 2001	
	#2 Diesel	Motor Oil	#2 Diesel	Motor Oil	#2 Diesel	Motor Oil	#2 Diesel	Motor Oil
MW-1	130J	<480	<240	<480	<240	NA	<240	<480
MW-2	<240	<480	<240	<480	150J	NA	<240	<480
MW-3	120J	<480	<240	<480	<240	NA	<240	<480
MTCA Cleanup Level <sup>1</sup>	500	500	500	500	500	500	500	500

NA- Not Analyzed

J- Estimated value

<sup>1</sup>MTCA Method A groundwater cleanup level

In a certified letter to Jim Decoto dated May 11, 2000, Ecology stated the soil sampling was insufficient and they were adding the Noland Decoto property to the known and suspected contaminated sites list. The soil around the former UST location will be investigated to evaluate the extent of soil contamination. This affected soil is currently covered by the 2810 building and a concrete patio with limited access. This area was investigated for the presence of heating oil as part of the current investigation.

#### 2.4.5 Oil Storage Shed (OSS)

A limited groundwater investigation was conducted in 2006 (JMK, 2006) to evaluate groundwater conditions at the Site. Groundwater samples were collected using direct push methods at four locations on the Site and from two existing monitoring wells MW-2 and MW-3 (Figure 2). Samples were analyzed by EPA Method 8260B for volatile organic compounds (VOCs) and EPA Method 8015B for diesel range organic compounds (DRO) and oil range organic compounds. VOCs, DRO, and oil range organics were detected in the sample from location B1 located south of the Oil Storage Shed (OSS). Analytes were not detected in samples from any of the other locations. The table below summarizes the groundwater sample analytical results. Sampling and analysis of the soil and groundwater was conducted in this area as part of the current investigation.

**Groundwater Sample Analytical Results (ug/L)**

Sample Location	Analyte					
	TPH Gasoline	Acetone	Ethylbenzene	Other VOCs	Diesel	Oil
B1	3,110	6.2	1.2	ND	1,300	8,000
B2	ND	ND	ND	ND	ND	ND
B3	ND	ND	ND	ND	ND	ND
B4	ND	ND	ND	ND	ND	ND
MW-2 <sup>1</sup>	ND	ND	ND	ND	ND	ND
MW-3 <sup>2</sup>	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level <sup>3</sup>	1,000 <sup>3,4</sup>	7,200 <sup>5</sup>	700 <sup>3</sup>	N/A	500 <sup>3</sup>	500 <sup>3</sup>

<sup>1</sup>Referred to as MW1 in JMK 2006

<sup>2</sup>Referred to as MW2 in JMK 2006

<sup>3</sup>MTCA Method A Cleanup Level

<sup>4</sup>No detectable benzene

<sup>5</sup>MTCA Method B Cleanup Level

N/A – Not applicable

**2.4.6 Northeastern Former AST Fuel Storage Area**

Ecology record:

Noland Decoto Flying Services Limited Soil Investigation Report, Fulcrum Environmental Consulting, July 2008

The northeastern former aboveground storage tank (AST) fuel storage area consists of the following empty ASTs:

- Approximate 15,000-gallon 100LL Gasoline AST
- Approximate 15,000-gallon JET A AST
- Approximate 500-gallon JET A AST

In 2005 visual evidence of a release of petroleum product to the site soils was reported. The affected area was limited to the southeast corner of the AST fuel storage area. Soils were stained directly below a release valve piping component. In October 2005 the soil beneath the leaking piping on the southeastern corner of the tank was sampled and the presence of diesel range hydrocarbons above MTCA cleanup standards was confirmed (Fulcrum 2008). At an unidentified date, the affected soil was excavated and stockpiled on 6 mil visqueen sheeting. In 2008 five soil samples were collected from the excavation and one soil sample was collected from the stockpiled soil. The samples were analyzed by NWTPH-Dx for diesel, heavy oil and mineral oil. These compounds were not detected in any of the samples (Fulcrum 2008).

The ASTs were emptied in the Fall of 2010 when a fence was constructed cutting off access to the airport runways.

In May 2008 Ecology recommended a No Further Action (NFA) for this location. No additional investigation is planned for this area.

### 2.4.7 GE Aviation Site

The GE Aviation Site is located east (downgradient) of the Noland Decoto Site. The electronic records received from Ecology in December 2012 included a *Figure 6 Detected Groundwater Results* which summarized the groundwater monitoring results for March, June and August 2011. The results on this figure relevant to the Noland Decoto Site were Benzene, Toluene, Ethylbenzene, Xylene (BTEX). None of the reported results exceeded MTCA Method B cleanup levels for groundwater, suggesting that is not a plume of BTEX in the groundwater leaving the Site.

## 3.0 INVESTIGATION ACTIVITIES

This section describes the Site investigation activities conducted. The descriptions of relevant investigation activities are integrated into this section by area to provide the reader with a comprehensive understanding of the investigation activities that were conducted.

On April 9 and 10 of 2013, 16 soil borings were completed by Cascade Drilling using direct push methods to characterize soil and groundwater conditions in accordance with the Investigation Work Plan (Hayman Environmental, 2013) This work was supervised by Hayman Environmental. Continuous soil cores were obtained from each probe. Field-screening was conducted by visually inspecting the soil core for staining and other evidence of environmental impact, monitoring soil vapors for volatile organic compounds (VOCs) using a portable photoionization detector (PID), and sheen testing. Soil cores were described and logged by a Hayman Environmental hydrogeologist. Soil was described and classified in accordance with the Unified Soil Classification System (USCS). Soil boring logs are included as Appendix A.

Soil samples collected for analysis of gasoline-range petroleum hydrocarbons by Method NWTPH-Gx and for analysis of VOCs by EPA Method 8260C were collected in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A.

A temporary 3/4-inch PVC well was constructed in each of the OSS area borings to collect a groundwater sample. Groundwater samples were collected with a peristaltic pump into laboratory supplied jars. Due to very high turbidity, groundwater samples were field filtered for dissolved lead analysis. After the sample was collected, the PVC was removed and the boring backfilled with bentonite.

Soil and groundwater samples were analyzed by OnSite Environmental in Redmond, WA, an accredited environmental laboratory, for petroleum hydrocarbons and related additives in accordance with Model Toxics Control Act (MTCA) requirements summarized in MTCA Table 830-1.

The number of borings, samples collected and analyses conducted for each area investigated are summarized below.

### 3.1 Dry Wells

One soil boring was completed to a depth of 10 ft below ground surface (BGS) within 10 ft of each of the three dry wells (Figure 2). The soil samples collected from the dry wells were as follows:

- DW-1 Two soil samples were collected from this boring. One soil sample was collected from the vadose zone. The second soil sample from DW-1 was collected from slightly above the capillary fringe of the water table. Field screening did not identify any suspected contamination.
- DW-2 Only one soil sample was collected from this boring because of the very limited quantity of soil recovered. Field screening did not identify any suspected contamination.
- DW-3 Two soil samples were collected from this boring. One soil sample was collected from the vadose zone. The second soil sample collected was from a thin gray stained layer at a depth of approximately 9 ft BGS. The entire stained interval was included in the sample.

Soil samples were submitted to the laboratory for the following analyses:

- NWTPH-Gx
- EPA Method 8260C, BTEX; 1,2-dibromomethane (EDB); 1,2-dichloroethane (EDC); and methyl tertiary- butyl ether (MTBE)
- EPA 6010C, Lead
- NWTPH-Dx with an acid/silica gel cleanup
- EPA Method 8270D, Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene
- Volatile Petroleum Hydrocarbons (VPH, archive)
- Extractable Petroleum Hydrocarbons (EPH archive)

### 3.2 Former UST Fueling Island and Suspected USTs

Three borings were completed to evaluate the Former Fuel Island and USTs (FFI) area (Figure 2). Field screening did not identify any evidence of contamination. Two soil samples were collected from each soil boring. One soil sample was collected from the vadose zone. A second soil sample was collected from slightly above the capillary fringe of the water table.

Soil samples were submitted to the laboratory for the following analyses:

- NWTPH-Gx
- EPA Method 8260C, BTEX; EDB; EDC; and MTBE
- EPA 6010C, Lead
- NWTPH-Dx with an acid/silica gel cleanup
- EPA Method 8270D, Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene
- VPH (archive)
- EPH (archive)

### 3.3 Hanger A Former Low Lead Aviation Gasoline AST

Two borings were completed to evaluate the Hanger A area (Figure 2). Field screening did not identify any suspected contamination. Two soil samples were collected from each soil boring. One soil sample was collected from the vadose zone. A second soil sample was collected from slightly above the capillary fringe of the water table. A total of 4 soil samples are planned for this area.

Soil samples were submitted to the laboratory for the following analyses:

- NWTPH-Gx
- EPA Method 8260C, BTEX, EDB, EDC, and MTBE
- EPA 6010C, Lead
- EPA Method 8270D, Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene
- VPH (archive)

### 3.2 Former Heating Oil UST

Three borings were drilled to evaluate the Former Heating Oil UST area (Figure 2). A fourth boring was planned to be drilled through the patio at the reported location of the former UST location. This location was inaccessible due to the concrete block wall surrounding the patio. Field screening did not identify any suspected contamination. Two soil samples were collected from each soil boring. One sample was from the vadose zone. A second soil sample was collected from slightly above the capillary fringe of the water table.

Soil samples from this area were submitted to the laboratory for analysis by NWTPH-Dx with an acid/silica gel cleanup as planned.

### 3.5 Oil Storage Shed

Five borings completed to evaluate the OSS and upgradient area on the Noland Decoto property for evidence of the source of the petroleum compounds detected in a groundwater sample collected in 2006 (JMK, 2006). The five boring locations are shown on Figure 2.

Boring OSS-1 was drilled on the west side of the Noland Decoto building adjacent to the 2006 sample location (Figure 2). Field screening did not identify any suspected contamination. One soil sample was collected from the vadose zone. A second soil sample was collected from slightly above the capillary fringe of the water table. A groundwater sample was collected from approximately 12 ft BGS.

The four remaining borings were drilled northwest (upgradient) of the OSS. Field screening did not identify any suspected contamination. One soil sample was collected from each boring at the capillary fringe as planned. A groundwater sample was collected with a peristaltic pump from each boring from approximately 12 ft BGS.

Soil and groundwater samples were submitted to the laboratory for the following analyses:

- NWTPH-Gx
- EPA Method 8260C, BTEX; EDB; EDC; and MTBE
- EPA 6010C, Total Lead (soil)
- EPA 200.8, Dissolved Lead (groundwater, field filtered)
- NWTPH-Dx with an acid/silica gel cleanup
- EPA Method 8270D, Naphthalene, 1-Methylnaphthalene, and 2-Methylnaphthalene
- VPH (archive)
- EPH (archive)

## 4.0 ENVIRONMENTAL SETTING

The Site is located in the Yakima River Basin of Yakima County, Washington and is generally flat, with a ground surface elevation of approximately 1,080 ft above mean sea level (MSL). A perennial stream called Wide Hollow Creek is located within 1,000 ft to the north and curves around the east end of YAT. Spring Creek and Bachelor Creek flow across the central and south portions of the airport, respectively. The streams all flow east and eventually converge with the Yakima River which is located approximately four miles to the east.

### 4.1 Regional Geology

The Yakima Basin is located on the western margin of the Columbia Plateau physiographic province. Available literature indicates that area surface geology consists of unconsolidated silt, sand, and gravel deposited as alluvial flood plain sediments, which are underlain by thick sequences of alluvial fan, loess, and Ellensburg formation deposits that range in thickness from 0 ft to a maximum of approximately 1,800 ft in the northwest portion of the basin (USGS 2006). These sediments were deposited in an east-west trending structural basin of the Yakima fold belt called the Ahtanum-Moxee syncline. The basin is bounded by the Yakima Ridge to the north and the Ahtanum Ridge to the south. The underlying bedrock consists of siltstone, mudstone, and Miocene-age volcanics of the Columbia River basalt group. Basalt bedrock is found at approximately 1,000 ft beneath the Airport.

The Natural Resources Conservation Service, Soil Survey of Yakima County further describes near surface sediments as Umapine silt loam, 0 to 5 percent slopes. This soil is somewhat poorly drained and has moderate permeability. The stream channel containing Spring Creek is mapped as Toppenish silt loam, 0 to 2 percent slopes, which has moderately slow permeability (NRCS 1985).

## 4.2 Regional Hydrogeology

Groundwater in the Yakima Basin is contained within three hydrogeological units (USGS 2006). The primary water bearing units include alluvial, unconsolidated, and consolidated basin fill deposits. Unit 1, the shallowest unit, consists of alluvial flood plain deposits and averages approximately 20 ft in thickness across the basin. Unit 2 typically underlies Unit 1 and consists of alluvial fan, loess, terrace, and Thorp gravels which average approximately 90 ft in thickness. Unit 3 underlies Unit 2 and consists primarily of consolidated Miocene volcanic and non-volcanic sedimentary deposits of the Ellensburg formation which average approximately 510 ft thick across the basin (USGS 2006). The direction of regional groundwater flow within these units is reported to be to the south and east.

## 4.3 Site Geology

This description of subsurface geologic conditions is based on the soil cores recovered during the direct push sampling. Subsurface conditions encountered during the Investigation field work consisted of deposits of brown silty fine sand and sandy silt from the ground surface to a depth of total depth of most of the borings. Gray sandy gravel was present at the bottom of a couple of the borings. Soil boring logs are presented in Appendix A.

## 4.4 Site Hydrogeology

Based on observations during the field work, the uppermost hydrogeologic unit at the Site consists of the unconsolidated deposits of silty sand and sandy silt encountered in the soil probes completed for the Investigation. The observed depth to groundwater during drilling was approximately 8 ft BGS.

### 4.4.1 Groundwater Flow and Hydraulic Conductivity

Investigation of groundwater conditions at the GE Aviation Site immediately adjacent to and east of the Noland Decoto Site determined the apparent groundwater flow direction to the southeast, this direction is nominally parallel to the southern property line of the Site.

A Remedial Investigation of UST sites at YAT was completed in 2011. It estimated the average linear groundwater flow velocity to be approximately 0.002 ft/day. The estimate assumed an estimated hydraulic gradient of the of 0.13 ft/day and an effective porosity of 0.40 (Landau, 2009).

## 4.5 Surface Water

Wide Hollow Creek, a tributary to the Yakima River, flows west to east approximately 500 ft north of the northern most area of investigation, the Former Fuel Island, on the Site. Wide Hollow Creek is a Type 2 surface water and is considered a stream of local importance based on Title 15 of the Yakima Municipal Code (City of Yakima 2010). Based on the Washington State Forest Practices Water Typing System identified in Chapter 222-16 WAC, Wide Hollow Creek is a Type F stream. Type F streams are defined as being known to be used by fish, or meeting the physical criteria to be potentially used by fish. Federally-listed Spring Chinook, summer steelhead, and bull trout do not utilize Wide Hollow Creek, although these fish are present in the Yakima River. Wide Hollow Creek is a Coho salmon spawning and rearing stream. The Coho in the Yakima River Basin are not a federally listed species.

In December 2009 measurements of groundwater elevation (1,036.74 ft) at YAT and water elevation (1,038.02) measurements in Wide Hollow Creek indicated groundwater does not appear to be discharging to the Creek. However, changes in groundwater elevations and creek water levels that may occur seasonally may change this relationship (Landau, 2009).

## 4.6 Natural Resources

YAT was first developed as a commercial airport in 1929, and has gone through a series of improvements that have included runway expansion and building construction. Decoto Brothers Air Craft Division was first identified in the Yakima Polk Directories in 1953 at the listed address of 2801 West Washington Avenue. A change in address was noted in 1987 from odd numbered addresses to even number addresses in conjunction with relocation of West Washington Avenue from south of the Site to the current location north of the Site.

The large majority of the Site is currently covered with pavement, including the taxiways and areas surrounding the buildings and hangars. Unpaved portions of the Site include areas with natural vegetation and grass located between and at the ends of several of the hangers, a former hanger location and along the western property line. The Site is fenced, with restricted access to those areas where the investigation was conducted. Exceptions to this generalization are Dry Well #2 (DW-2) and Dry Well #3 (DW-3).

The National Wetlands Inventory (USFWS website <http://www.fws.gov/wetlands/Wetlands-Mapper.html>) does not identify wetland areas within the Site. It does identify *Freshwater Forested/Shrub Wetland* in a narrow band along Wide Hollow Creek which is identified as a Palustrine, Forested, Broad-Leaved Deciduous, Temporarily Flooded (PFO1A) wetland. The wetland is not expected to be impacted by conditions at the Noland Decoto Site.

## 5.0 SITE SCREENING LEVELS

This section develops Site screening levels for use in evaluating the nature and extent of contamination discussed in Section 6.0. Site screening levels were developed for potential exposure pathways, based on Washington State MTCA criteria, for hazardous substances that were characterized by the Investigation activities. The following sections identify potential receptors and exposure pathways. Preliminary cleanup levels are MTCA Method A cleanup levels for unrestricted land use.

### 5.1 Potential Receptors

There is potential exposure to human and ecological receptors at the Site. Potential receptors were:

- **Site workers** – Site workers may potentially be exposed to contaminants in surface and subsurface soil.
- **Site workers** – Site workers may potentially be exposed to contaminants in site groundwater.
- **Terrestrial Organisms** – Terrestrial organisms may potentially be exposed to contaminants in surface and subsurface soil.

### 5.2 Potential Exposure Pathways

Potential exposure pathways were identified for both human and environmental receptors. The potential exposure pathways were:

- **Ingestion of groundwater** – Contaminants in groundwater have the potential to be ingested in drinking water at the Site. There is currently no use of groundwater at the Site as drinking water.
- **Direct contact with soil** – Potential pathways include contact with exposed surface soil and exposure to subsurface soil during construction that involves intrusive activities.
- **Leaching from soil to groundwater** – Soil contaminants can leach to groundwater in unpaved areas where stormwater can infiltrate through contaminated soil or at locations where soil contamination is in direct contact with groundwater.

The soil vapor pathway is not considered to have the potential to impact potential receptors at the Site because of the very low concentrations of volatile compounds detected in samples from this Site. The soil vapor pathway is not considered further in this report.

## 5.3 Cleanup Levels

Site Cleanup levels were developed for the analytes in soil and groundwater, based on the preceding evaluation of potential exposure pathways and receptors, and the MTCA regulations. Consistent with WAC 173-340-700, the cleanup levels were determined using Ecology's online CLARC database (<https://fortress.wa.gov/ecy/clarc/Reporting/ParameterQuery.aspx>),. Table 1 is the CLARC Summary used to determine the cleanup levels. It shows the soil and groundwater Parameters, the associated cleanup level for each analyte, and the selected MTCA Method A and Method B cleanup levels.

### 5.3.2 Soil

Soil cleanup levels were developed for unrestricted land use which was based on a child exposure scenario. When available MTCA Method A soil cleanup levels protective of groundwater and direct contact for human and terrestrial receptors were identified as cleanup levels for soil. MTCA Method B soil cleanup levels were selected for analytes that did not have Method A cleanup levels. Applicable soil regulations include:

- MTCA Method A values (WAC 173-340-720) for soil. MTCA Method A cleanup levels are available for the compounds of interest at this site with the exception of the individual xylenes and methylnaphthalenes.
- MTCA Method B values (WAC 173-340-720) for soil. MTCA Method B values are available for the individual xylenes and methylnaphthalenes.
- Method A Industrial Land Use- [WAC 173-340-745(3)(b)(i)] for soil.

### 5.3.1 Groundwater

Groundwater cleanup levels were developed to be protective of groundwater for use as drinking water. Applicable groundwater regulations include:

- MTCA Method A values (WAC 173-340-720) for groundwater. MTCA Method A cleanup levels are available for the compounds of interest at this site with the exception of the individual xylenes and methylnaphthalenes.
- MTCA Method B values (WAC 173-340-720) for groundwater. Method B values are available for the individual xylenes and methylnaphthalenes.
- Federal Primary and state Primary and Secondary Drinking Water Standards (40 CFR 141 and Chapter 246-290 WAC).

## 6.0 NATURE AND EXTENT OF CONTAMINATION

This section describes Site environmental conditions encountered in soil and groundwater during the Investigation. Site environmental conditions were determined based on analytical results for soil and groundwater samples collected on April 9 and 10, 2013.

Analytical data were evaluated for data quality prior to use. Data quality was consistent with the procedures and parameters identified in the Work Plan. A Trip Blank was submitted to the laboratory and analyzed by EPA Method 8260C for VOCs.

### 6.1 Soil Quality

A total of 27 soil samples were collected and analyzed from the five areas investigated. Section 3.0 Investigation Activities summarizes the samples collected and the analyses conducted on the samples from each area. There were a total of 19 detections above the practical quantitation limit (PQL). The following table summarizes the analytes detected and number of detections in the soil samples.

### Soil Sample Analyte Detection Summary

Analyte	Number of Detections
Diesel Range Organics	0
Lube Oil	2
Benzene	0
Ethylbenzene	0
Toluene	0
m,p-xylene	0
o-xylene	0
Methyl t-Butyl Ether	0
1,2-Dichloroethane (EDC)	0
Ethylenedibromide (EDB)	0
1-Methylnaphthalene	1
2-Methylnaphthalene	1
Naphthalene	3
Total Lead	12

Soil sample analytical results are summarized in the following sub-sections, and are presented and compared to soil cleanup levels in Table 2. The laboratory report from OnSite Environmental is included as Appendix B.

#### 6.1.1 Dry Wells

A total of five soil samples were analyzed from the three Dry Well borings. A total of five analytes were detected at concentrations above the laboratory PQL.

**Lube oil** was detected in the vadose zone (shallow) sample from borings DW-2 and DW-3. The highest concentration detected was 500 mg/kg, well below the MTCA Method A cleanup level for unrestricted land use of 2,000 mg/kg.

**1-Methylnaphthalene** was detected in the deep soil sample from boring DW-3 with a reported concentration of 0.0079 mg/kg. This concentration is below the MTCA Method B cleanup level of 1.51 mg/kg.

**2-Methylnaphthalene** was detected in the deep soil sample from boring DW-3 with a reported to at concentration 0.12 mg/kg. This concentration is below the MTCA Method B cleanup level of 32 mg/kg.

**Naphthalene** was detected at a concentration of 0.024 mg/kg in the deep DW-3 sample. This concentration is below the MTCA Method A cleanup level of 5 mg/kg.

**Lead** was detected in one sample from each of the three Dry Well borings. The highest concentration detected was 8.1 mg/kg. Again, this concentration is below the MTCA Method A cleanup level for unrestricted land use of 250 mg/kg for unrestricted land use.

Of the eight analyte detections in the soil samples collected from the three Dry Well borings, none of the analyte concentrations exceeded, or even approached applicable the MTCA cleanup level (Table 1).

#### 6.1.2 Former Fuel Island and USTs

A total of six soil samples were analyzed from the three Former Fuel Island and UST area (FFI) borings. Lead was detected at concentrations above the laboratory PQL twice.

**Lead** was detected in the shallow soil sample from boring FFI-1 at a concentration of 8.0 mg/kg and in the deep soil sample from boring FF1-2 at a concentration of 8.0 mg/kg. These concentrations are below the MTCA Method A cleanup level for unrestricted land use of 250 mg/kg.

### 6.1.3 Hanger A

A total four soil samples were collected from the two borings in the Hanger A area.

**Lead** was detected in each of the four soil samples collected from this location. The highest lead concentration detected was 20 mg/kg. This concentration is below the MTCA Method A cleanup level for unrestricted land use of 250 mg/kg.

### 6.1.4 Former Heating Oil UST

DRO and Lube Oil compounds were not detected at concentrations above the laboratory PQL in any of the six soil samples collected from the three Former Heating Oil UST borings. The MTCA Method A cleanup level for unrestricted land use is 2,000 mg/kg for both DRO and Lube Oil compounds

### 6.1.5 Oil Storage Shed

A total of six soil samples were analyzed from the five OSS area borings. A total of two analytes were detected at concentrations above the laboratory PQL.

**Naphthalene** was detected at concentrations of 0.014 mg/kg and 0.010 mg/kg in the soil sample from borings OSS-3 and OSS-5 respectively. These concentrations are below the MTCA Method A cleanup level for unrestricted land use of 5 mg/kg.

**Lead** was detected in one sample from borings OSS-1, OSS-2 and OSS-5 at concentrations of 10 mg/kg, 8.4 mg/kg and 8.8 mg/kg respectively. These concentrations are below the MTCA Method A cleanup level for unrestricted land use of 250 mg/kg

## 6.2 Groundwater Quality

### 6.2.1 Oil Storage Shed

A groundwater sample was collected from each of the five OSS area borings. The laboratory analytical results are summarized in Table 3. Applicable groundwater cleanup levels are presented in Table 3 also. Five analytes were detected, one time each, in the groundwater samples. The following table summarizes the analytes detected and number of detections in the groundwater samples.

**Groundwater Sample Analyte Detection Summary**

Analyte	Number of Detections
Diesel Range Organics	1
Lube Oil	0
Benzene	0
Ethylbenzene	0
Toluene	0
m,p-xylene	0
o-xylene	0
Methyl t-Butyl Ether (MTBE)	0
1,2-Dichloroethane (EDC)	0
Ethylenedibromide (EDB)	0
1-Methynaphthalene	1
2-Methynaphthalene	1
Naphthalene	1
Dissolved Lead	1

The groundwater sample from boring OSS-1 contained dissolved lead at a concentration of 1.8 ug/L. This concentration is below the MTCA Method A cleanup level of 15 ug/L.

The groundwater sample from boring OSS-2 contained three analytes at concentrations above the PQL. The analytes and concentrations are as follows:

**Detected Analytes in the Location OSS-2 Groundwater Sample**

Analyte	Concentration (ug/L)	Cleanup Level
1-Methynaphthalene	0.13	160*
2-Methynaphthalene	0.33	1.51**
Naphthalene	0.34	32**

\*MTCA Method A Cleanup Level

\*\*MTCA Method B Cleanup Level

The groundwater sample from OSS-3 contained DRO at a concentration of 0.28 ug/L. The MTCA Method A Cleanup Level for DRO is 2,000 ug/L.

### 6.3 Cleanup Level Exceedances

As described above and summarized in Table 2 and Table 3, Investigation activities did not identify any areas where soil and/or groundwater sample analyte concentrations exceeded the applicable MTCA Cleanup Levels.

## 7.0 CONCEPTUAL SITE MODEL AND INVESTIGATION CONCLUSIONS

The conceptual Site model (CSM) was developed based on historic land use, environmental data, and the contaminant fate and transport processes that control the migration of contaminants in the natural environment. There are two areas where previous environmental sampling identified the presence of contamination. These areas are the HUST area and the OSS area.

The HUST area contamination was documented during the UST removal in 1999. Four quarters of groundwater monitoring in 2000 and 2001 did not detect heating oil (DRO) or motor oil above the MTCA Method A cleanup level. (See Section 2.4.5 for a more complete discussion.) Soil samples collected as part of the current investigation did not contain concentrations of heating oil compounds above the PQL.

Groundwater contamination in the OSS area was documented by a single sample collected with a Geoprobe in 2006 (JMC, 2006). (See Section 2.4.6 for a complete discussion.) The current Investigation conducted a robust investigation of the soil and groundwater of the OSS and upgradient area. The concentrations of the analytes detected in the soil samples (Table 2) and groundwater samples (Table 3) were well below the applicable MTCA cleanup levels. This finding is consistent with the groundwater monitoring conducted at the GE Aviation site located downgradient of the Noland Decoto Site.

### 7.1 Investigation Conclusions

The Investigation was conducted to evaluate potential and confirmed sources of contamination on the Noland Decoto Site and to characterize the nature and extent of impacts to soil and groundwater from these sources. The results of the Investigation indicate that none of the areas investigated have been affected by contaminant releases.

## 8.0 SUMMARY AND CONCLUSIONS

The Site Investigation defined physical characteristics, potential source areas, the nature and extent of impacted media, and the potential migration pathways for contaminants. Data from the Investigation demonstrated that soil and groundwater on the Noland Decoto Site have not been affected by contaminant releases. Based on the findings presented in this report, the Noland Decoto Site does not pose a threat to human health or the environment' therefore it should be eligible for removal from Ecology's Hazardous Sites List.

## 9.0 USE OF THIS REPORT

This report was prepared for the use of the Yakima Land Company, LLC; the Byron and Alice Lockwood Foundation; and the Reston Companies; and applicable regulatory agencies, for specific application to the Noland Decoto Site. No other party is entitled to rely on the information, conclusions, and recommendations included in this report without the express written consent of the Yakima Land Company, the Byron and Alice Lockwood Foundation; the Reston Companies, and Hayman Environmental. Further, the use of conclusions, information, and conclusions provided in this report for extensions of this project or any other project, without review and authorization by Hayman Environmental shall be at the users sole risk. Hayman Environmental warrants that within the limitations of scope, budget, and schedule, our services have been provided in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions as this project. We make no other warranty express or implied.

This document was prepared under the supervision and direction of the undersigned.

### HAYMAN ENVIRONMENTAL, LLC

Glenn A. Hayman, LHg  
Principal

## 10.0 REFERENCES

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PLSA Engineering and Surveying, 2000a; Site Assessment Engineering Report, Underground Storage Tank Removal; March 2000.

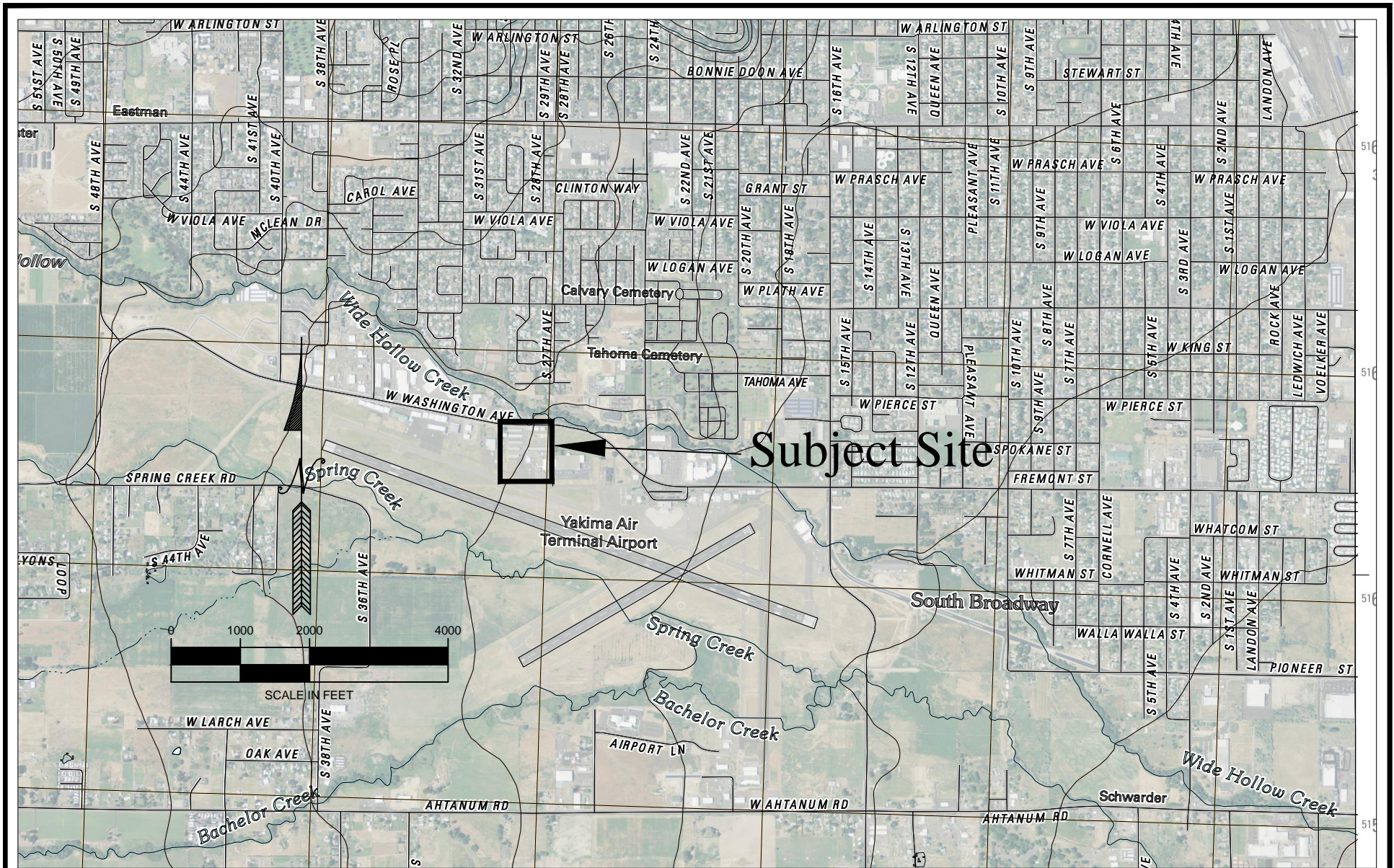
PLSA Engineering and Surveying, 2000b; Letter report to Jim Decoto, Re: Groundwater Sampling and Testing; July 2000.

PLSA Engineering and Surveying, 2000c; Letter report to Jim Decoto, Re: Groundwater Sampling and Testing; November 2000.

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NRCS, 1985; Soil Survey of Yakima County Area, Washington; Natural Resources Conservation Service; May 1985.

USGS, 2006; *Hydrogeologic Framework of Sedimentary Deposits in Six Structural Basins, Yakima River Basin, Washington*, Scientific Investigations Report 2006-5116; United States Geologic Survey; 2006.



SMD: 02/11/2013

Source: USGS 7.5' Quadrangle, Yakima West (2011)

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18425 NE 95th Street, Suite 201  
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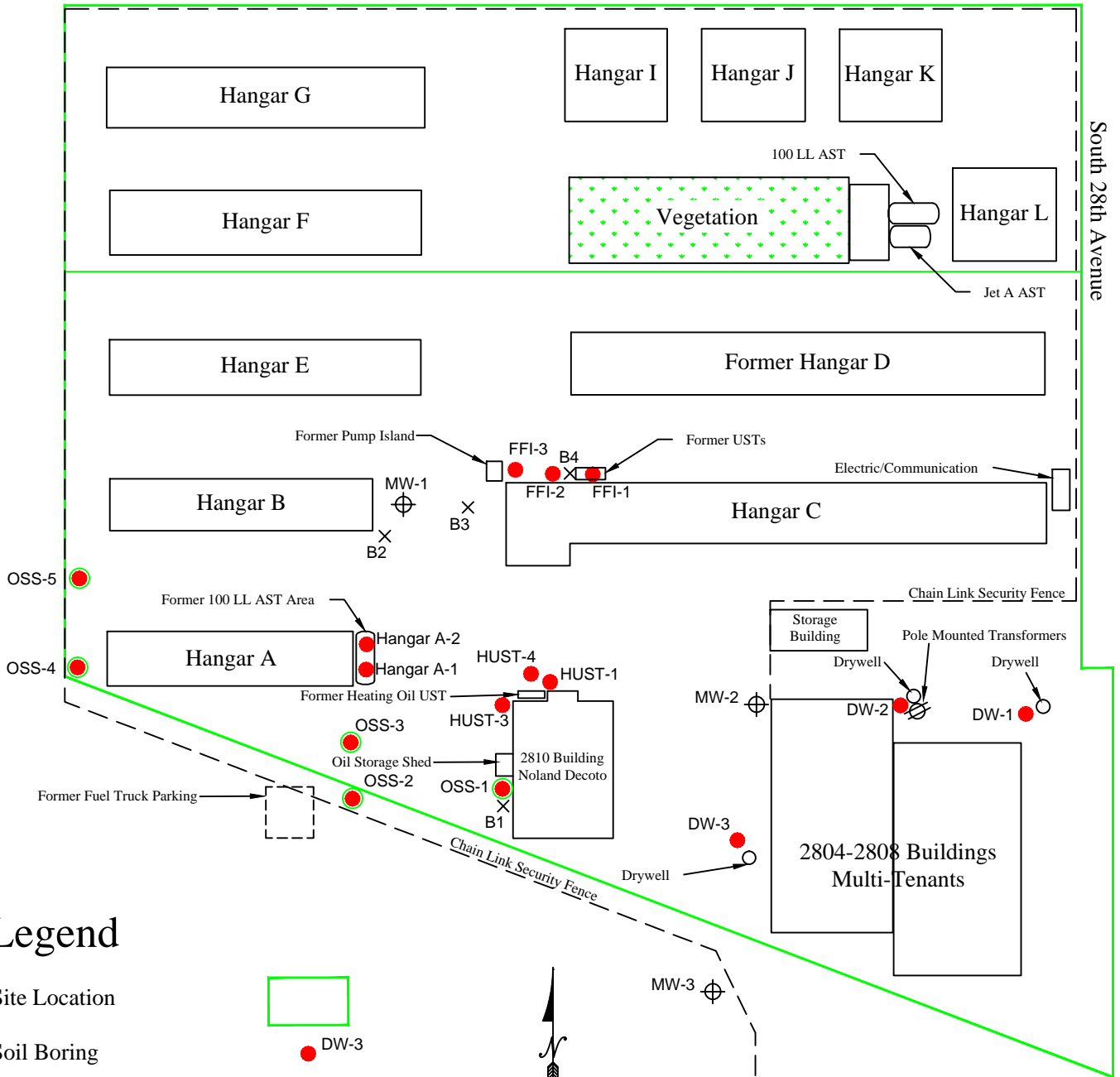
Noland DeCoto Site  
 2804 & 2810 West Washington Avenue  
 Yakima, Washington

Figure 1  
 Site Location Map


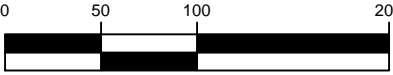
Flightline Convenience Center

West Washington Avenue

South 28th Avenue



### Legend

- Site Location
  - Soil Boring ● DW-3
  - Soil Boring w/groundwater sample  OSS-1
  - Monitoring Well (PLSA, 2007)  MW-2
  - Soil Boring (JMK, 2006) × B2
-   
  
 SCALE IN FEET

SMD: 05/07/2013

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**Noland DeCoto Site**

2804 - 2810 West Washington Avenue  
Yakima, Washington

**Figure 2**

Site Map with  
Boring Locations

Table1. Potential Cleanup Levels From the Washington Department of Ecology Online CLARC Database. Noland DeCoto Site Yakima, WA. Note mixed units of measure: mg/L, ug/L, and mg/kg

CLARC Summary	benzene	toluene	ethyl-benzene	m-xylene	o-xylene	p-xylene	xylenes	tph gasoline range organics, benzene present	tph gasoline range organics, no detectable benzene	tph diesel range organics	tph heavy oils (Lube Oil & Motor Oil)	1,2-Dichloroethane (EDC)	Ethylene Dibromide (EDB)	Methyl tert-butyl ether (MTBE)	naphthalene	1-methyl naphthalene	2-methyl naphthalene	lead
	71-43-2	108-88-3	100-41-4	108-38-3	95-47-6	106-42-3	1330-20-7	unavailable	unavailable	unavailable	unavailable	107-06-2	106-93-4	1634-04-4	91-20-3	90-12-0	91-57-6	7439-92-1
Ground Water ARAR - Federal Maximum Contaminant Level Goal (MCLG) (mg/L)	0E+00	1	0.7	Not Researched	Not Researched	Not Researched	10	Not Researched	Not Researched	Not Researched	Not Researched	0E+00	0E+00	Not Researched	Not Researched	Not Researched	Not Researched	0E+00
Ground Water ARAR - Federal Primary Maximum Contaminant Level (MCL) (mg/L)	0.005	1	0.7	Not Researched	Not Researched	Not Researched	10	Not Researched	Not Researched	Not Researched	Not Researched	5.E-03	5.E-05	Not Researched	Not Researched	Not Researched	Not Researched	0.015
Ground Water ARAR - State Primary Maximum Contaminant Level (MCL) (mg/L)	0.005	1	0.7	Not Researched	Not Researched	Not Researched	10	Not Researched	Not Researched	Not Researched	Not Researched	5.E-03	5.E-05	Not Researched	Not Researched	Not Researched	Not Researched	0.015
Ground Water, Method A, Table Value (µg/L)	5	1000	700	Researched-No Data	Researched-No Data	Not Researched	1000	800	1000	500	500	5.E+00	1.E-02	2.E+01	160	Not Researched	Not Researched	15
Ground Water, Method B, Carcinogen, Standard Formula Value (µg/L)	0.79545455	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	4.8E-01	2.2E-02	Researched-No Data	Not Researched	1.51	Not Researched	Not Researched
Ground Water, Method B, Non-carcinogen, Standard Formula Value (µg/L)	32	640	800	1600	1600	1600	1600	Not Researched	Not Researched	Not Researched	Not Researched	1.6E+02	7.2E+01	Researched-No Data	160	Not Researched	32	Not Researched
Soil, Method A, Industrial Land Use, Table Value (mg/kg)	0.03	7	6	Researched-No Data	Researched-No Data	Not Researched	9	30	100	2000	2000	Researched-No Data	5.E-03	1.E-01	5	Not Researched	Not Researched	1000
Soil, Method A, Unrestricted Land Use, Table Value (mg/kg)	0.03	7	6	Researched-No Data	Researched-No Data	Not Researched	9	30	100	2000	2000	Researched-No Data	5.E-03	1.E-01	5	Not Researched	Not Researched	250
Soil, Method B, Carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use (mg/kg)	18.1818182	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	Not Researched	1.1E+01	5.E-01	Researched-No Data	Not Researched	34.5	Not Researched	Not Researched
Soil, Method B, Non-carcinogen, Standard Formula Value, Direct Contact (ingestion only), unrestricted land use (mg/kg)	320	6400	8000	16000	16000	16000	16000	Not Researched	Not Researched	Not Researched	Not Researched	1.6E+03	7.2E+02	Researched-No Data	1600	Not Researched	320	Not Researched

**Selected cleanup level**

"Researched-No Data" means research has been conducted and no data exists in the database for this parameter.

"Not Researched" means research has not been conducted and no value exists in the database for this parameter.

Table 2. Soil Sample Analytical Results in mg/Kg, Noland Decoto Site Yakima, WA.

Sample		NWTPH-Dx		NWTPH-Gx	SW 8260C								SW 8270D SIM			SW6010C
Name	Depth in ft BGS <sup>3</sup>	Diesel Range Organics	Lube Oil	Gasoline Range Organics	Benzene	Toluene	Ethylbenzene	m, p-Xylene	o-Xylene	Methyl t-Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	Ethylene dibromide (EDB)	1-Methyl-naphthalene	2-Methyl-naphthalene	Naphthalene	Total Lead
<b>Dry Wells</b>																
DW-1-1-1	3	35 U	71 U	8.7 U	0.0017 U	0.0084 U	0.0017 U	0.0034 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0094 U	0.0094 U	0.0094 U	7.2 U
DW-1-1-2	7	34 U	68 U	8.3 U	0.0014 U	0.0071 U	0.0014 U	0.0028 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0091 U	0.0091 U	0.0091 U	6.9
DW-2-1-1	7.5	35 U	<b>500</b>	8.6 U	0.0018 U	0.0090 U	0.0018 U	0.0036 U	0.0018 U	0.0018 U	0.0018 U	0.0018 U	0.0094 U	0.0094 U	0.0094 U	8.1
DW-3-1-1	3	35 U	69 U	8.5 U	0.0013 U	0.0066 U	0.0013 U	0.0027 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0093 U	0.0093 U	0.0093 U	6.9 U
DW-3-1-2	8.5	33 U	<b>66</b>	7.7 U	0.0014 U	0.0068 U	0.0014 U	0.0027 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	<b>0.079</b>	<b>0.12</b>	<b>0.024</b>	7.1
<b>Former Fuel Island and USTs</b>																
FFI-1-1	4	36 U	73 U	9.2 U	0.0017 U	0.0087 U	0.0017 U	0.0035 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.0097 U	0.0097 U	0.0097 U	8.0
FFI-1-2	6	33 U	66 U	8.1 U	0.0013 U	0.0063 U	0.0013 U	0.0025 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0089 U	0.0089 U	0.0089 U	6.6 U
FFI-2-1	5	35 U	70 U	8.4 U	0.0015 U	0.0076 U	0.0015 U	0.0030 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0094 U	0.0094 U	0.0094 U	7.0 U
FFI-2-2	6.5	31 U	63 U	7.3 U	0.0014 U	0.0070 U	0.0014 U	0.0028 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0084 U	0.0084 U	0.0084 U	8.0
FFI-3-1	3	35 U	69 U	7.1 U	0.0016 U	0.0078 U	0.0016 U	0.0031 U	0.0016 U	0.0016 U	0.0016 U	0.0016 U	0.0092 U	0.0092 U	0.0092 U	6.9 U
FFI-3-2	6	34 U	67 U	8.2 U	0.0012 U	0.0058 U	0.0012 U	0.0023 U	0.0012 U	0.0012 U	0.0012 U	0.0012 U	0.0090 U	0.0090 U	0.0090 U	8.0
<b>Hanger A</b>																
Hanger A-1-1	2	na	na U	7.8 U	0.0015 U	0.0074 U	0.0015 U	0.0030 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0086 U	0.0086 U	0.0086 U	14
Hanger A-1-2	6.5	na	na U	6.9 U	0.0013 U	0.0063 U	0.0013 U	0.0025 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0086 U	0.0086 U	0.0086 U	14
Hanger A-2-1	2	na	na U	8.3 U	0.0013 U	0.0067 U	0.0013 U	0.0027 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0091 U	0.0091 U	0.0091 U	11
Hanger A-2-2	7	na	na U	8.1 U	0.0014 U	0.0070 U	0.0014 U	0.0028 U	0.0014 U	0.0014 U	0.0014 U	0.0014 U	0.0092 U	0.0092 U	0.0092 U	20
<b>Heating Oil UST</b>																
HUST-1-1	4	35 U	70 U	na	na	na	na	na	na	na	na	na	na	na	na	na
HUST-1-2	7	36 U	71 U	na	na	na	na	na	na	na	na	na	na	na	na	na
HUST-3-1	4	35 U	70 U	na	na	na	na	na	na	na	na	na	na	na	na	na
HUST-3-2	7	36 U	72 U	na	na	na	na	na	na	na	na	na	na	na	na	na
HUST-4-1	4	32 U	65 U	na	na	na	na	na	na	na	na	na	na	na	na	na
HUST-4-2	7.5	33 U	66 U	na	na	na	na	na	na	na	na	na	na	na	na	na
<b>Oil Storage Shed</b>																
OSS-1-1	3	35 U	70 U	8.4 U	0.0015 U	0.0076 U	0.0015 U	0.0030 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0094 U	0.0094 U	0.0094 U	7.0 U
OSS-1-2	6.5	35 U	70 U	8.8 U	0.0015 U	0.0074 U	0.0015 U	0.0030 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0094 U	0.0094 U	0.0094 U	10
OSS-2-1	6	35 U	69 U	8.3 U	0.0015 U	0.0076 U	0.0015 U	0.0030 U	0.0015 U	0.0015 U	0.0015 U	0.0015 U	0.0092 U	0.0092 U	0.0092 U	8.4
OSS-3-1	3.5	33 U	67 U	8.3 U	0.0013 U	0.0066 U	0.0013 U	0.0026 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0089 U	0.0089 U	<b>0.014</b>	6.7 U
OSS-4-1	7	35 U	70 U	8.6 U	0.0013 U	0.0067 U	0.0013 U	0.0027 U	0.0013 U	0.0013 U	0.0013 U	0.0013 U	0.0093 U	0.0093 U	0.0093 U	7.0 U
OSS-5-1	7	39 U	77 U	10 U	0.0017 U	0.0084 U	0.0017 U	0.0034 U	0.0017 U	0.0017 U	0.0017 U	0.0017 U	0.010 U	0.010 U	<b>0.010</b>	8.8
<b>Cleanup Level</b>		2000 <sup>1</sup>	2000 <sup>1</sup>	30* <sup>1</sup>	0.03 <sup>1</sup>	7.00 <sup>1</sup>	6.00 <sup>1</sup>	16000 <sup>2</sup>	16000 <sup>2</sup>	0.1 <sup>1</sup>	1600 <sup>2</sup>	0.005 <sup>1</sup>	34.5 <sup>2</sup>	320 <sup>2</sup>	5.00 <sup>1</sup>	250 <sup>1</sup>

<sup>1</sup> MTCA Method A Cleanup Level for unrestricted land use

<sup>2</sup> MTCA Method B Cleanup Level

<sup>3</sup> Depth to top of sampled interval

BGS- Below Ground Surface

na- Not Analyzed

\* with no benzene present

U - Analyte not detected above practical quantitation limit

**Bold** text indicates analyte detected above practical quantitation limit

Table 3. Groundwater Sample Analytical Results in ug/L, Noland Decoto Site Yakima, WA.

Sample Name	NWTPH-Dx		NWTPH-Gx	SW 8260C								SW 8270D SIM			SW6010C
	Diesel Range Organics	Lube Oil	Gasoline Range Organics	Benzene	Toluene	Ethylbenzene	m, p-Xylene	o-Xylene	Methyl t-Butyl Ether (MTBE)	1,2-Dichloroethane (EDC)	Ethylene dibromide (EDB)	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Lead, Dissolved
OSS-1	0.31 U	0.49 U	100 U	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	<b>1.8</b> <sup>a</sup>
OSS-2	0.28 U	0.45 U	100 U	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	<b>0.33</b>	<b>0.34</b>	<b>0.13</b>	1.0 U <sup>a</sup>
OSS-3	<b>0.28</b>	0.44 U	100 U	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.097 U	0.097 U	0.097 U	1.0 U <sup>a</sup>
OSS-4	0.27 U	0.44 U	100 U	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	1.0 U <sup>a</sup>
OSS-5	0.26 U	0.42 U	100 U	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.10 U	0.10 U	0.10 U	1.0 U
Trip Blank	na	na	na	0.20 U	1.0 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	na	na	na	na
Cleanup Level	500 <sup>1</sup>	500 <sup>1</sup>	800* <sup>1</sup>	5 <sup>1</sup>	1000 <sup>1</sup>	700 <sup>1</sup>	1600 <sup>2</sup>	1600 <sup>2</sup>	20 <sup>1</sup>	5 <sup>1</sup>	0.01 <sup>1</sup>	151 <sup>2</sup>	32 <sup>2</sup>	160 <sup>1</sup>	15 <sup>1</sup>

<sup>a</sup> Sediment observed in the sample by the analytical laboratory

na- Not Analyzed

<sup>1</sup> MTCA Method A Cleanup Level

<sup>2</sup> MTCA Method B Cleanup Level

\* with no benzene present

U - Analyte not detected above practical quantitation limit

**Bold** text indicates analyte detected above practical quantitation limit



**Appendix A**  
**Boring Logs**

SOIL BORING LOG							Job. No.	Client:	Location:		
Hayman Environmental, LLC							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa		
Coordinates: 46.572076,-120.548179							Drilling Method:		Boring No. <b>Hanger A-1</b>		
Surface Elevation:							Direct Push				
Well Riser Elevation:							Sampling Method:				
Location Description: 10 ft east of Hanger A, north of center							1.25 inch clear PVC liner		Sheet 1 of 1		
							Water Level Below Ground Surface		Drilling	Start	Finish
							8 ft		Date	4/9/13	4/9/13
									Time	10:45	11:05
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:			
					0			Grass			
					1			Description			
PVC liner	5/1		2-4 ft 10:50	0.0	2		SP	Brown silty sand, damp, no odor, no sheen			
					3			Collect sample HangerA-1-1			
					4			More sand less silt, moist			
					5			Same as above			
					6			Collect sample HangerA-1-2			
PVC liner	5/2		6.5-8 ft 10:56	0.0	7			Wet			
					8						
					9						
					10			Total depth 10 ft.			
					11						
					12						
					13						
					14						
					15						
					16						
					17						
					18						
					19						
					20						
					21						
					22						
					23						
					24						

Logged by: Glenn A. Hayman Date: 4/9/13 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job. No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa	
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>Hanger A-2</b>	
<b>Sampling Method:</b> 1.25 inch clear PVC liner		Sheet 1 of 1	
<b>Water Level</b> 8 ft		<b>Drilling</b>	<b>Start</b>
		<b>Date</b>	<b>Finish</b>
		Time	10:15 10:40

Coordinates: 46.572131,-120.548182  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: 10 ft east of Hanger A, south of center

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions: Grass
								Description
PVC liner	5/3		2-3 ft 10:25	0.0	0	SP		Brown silty sand, damp, no odor, no sheen
					1			
					2			Collect sample Hanger A-2-1
					3			
					4			More sand, moist
PVC liner	5/2.5		7-8 ft 10:35	0.0	5			Same as above, no sheen
					6			
					7			Collect sample Hanger A-2-2
					8			Wet
					9			
			10	Total depth 10 ft.				
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					
			21					
			22					
			23					
			24					

Logged by: Glenn A. Hayman Date: 4/9/13 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa	
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>FFI-1</b>	
<b>Sampling Method:</b> 1.25 inch clear PVC liner		Sheet 1 of 1	
<b>Water Level</b> 7.5 ft		<b>Drilling</b>	<b>Start</b>
		<b>Date</b>	<b>Finish</b>
		Time	4:15 4:40

Coordinates: 46.572445,-120.547578  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: 60 ft east of NE corner of Hanger C

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner	5/3				0	SP	GP	Asphalt
					1		Brown silty sand, damp, no odor, no sheen	
					2			
					3			
			4-5 4:30	0.0	4		Collect sample FFI-1-1	
PVC liner	5/3				5		Same as above, moist, no odor, no sheen	
					6			
			6-7 4:40	0.0	7	Collect sample FFI-1-2		
					8	Wet		
					9			
					10		Total depth 10 ft.	
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>FFI-2</b>
<b>Sampling Method:</b> 1.25 inch clear PVC liner		
<b>Water Level</b> 7.5 ft		<b>Sheet 1 of 1</b>
<b>Drilling</b>	<b>Start</b>	<b>Finish</b>
Date	4/9/2013	4/9/2013
Time	4:45	5:00

Coordinates: 46.572451,-120.547689  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: 35 ft east of NE corner of Hanger C

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner	5/3				0		GP	Gravel
					1		SP	Red lava rock
					2			Brown silty sand, damp, no odor, no sheen
				5-6 4:50	0.0	3		Collect sample FFI-2-1
						4		Moist
PVC liner	5/4.5				5		SW	
				6.5-7.5 4:55	0.0	6		Collect sample FFI-2-2
						7		Wet, very silty
						8		
					9			
					10			Brown coarse to fine sand with little silt
					11			Total depth 10 ft
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job. No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa	
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>FFI-3</b>	
<b>Sampling Method:</b> 1.25 inch clear PVC liner		Sheet 1 of 1	
<b>Water Level</b> 7.5 ft		<b>Drilling</b>	<b>Start</b>
		<b>Date</b>	<b>Finish</b>
		Time	9:10 9:30

Coordinates: 46.572451,-120.547811  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: NE corner of Hanger C

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner					0		GP	Gravel
					1		SP	Red lava rock
					2			Brown silty sand trace of fine gravel, damp, no odor, no sheen
		5/2.5	3-4 9:20	0.0	3			
					4			
				5		Same as above, moist		
PVC liner			6-7 9:30	0.0	6			Collect sample FFI-3-2, no odor, trace of sheen
		5/2.2			7			Wet
					8			
					9			
					10			Total depth 10 ft.
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG							Job No.	Client:	Location:		
<b>Hayman Environmental, LLC</b>							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa		
							Drilling Method:			Boring No.	
Coordinates: 46.572099,-120.547656			Surface Elevation:			1.25 inch clear PVC liner			<b>HUST-1</b>		
Well Riser Elevation:			Location Description: East of former Noland DeCoto bld. heating oil UST			Sampling Method:					
Water Level			8.5			Sheet 1 of 1					
Drilling			Start			Finish					
Date			4/9/2013			4/9/2013					
Time			2:05			2:25					
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:			
					0			Dirt			
					1		SP	Description			
PVC liner	5/2.5				2			Brown silty sand with a trace of fine gravel, no odor, no sheen			
					3			Damp			
				4-5 2:19	0.0	4			Collect sample HUST-1-1		
						5		Moist			
					6		ML				
PVC liner	5/4		7-8 2:24	0.0	7			Collect sample HUST-1-2			
					8			No odor, no sheen			
						9			Wet		
						10		Total depth 10 ft			
					11						
					12						
					13						
					14						
					15						
					16						
					17						
					18						
					19						
					20						
					21						
					22						
					23						
					24						

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_



**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa		
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>HUST-3</b>		
<b>Sampling Method:</b> 1.25 inch clear PVC liner				
<b>Water Level</b> 8.5				
Coordinates: 46.572071,-120.547798		Sheet 1 of 1		
Surface Elevation: _____		Drilling	Start	Finish
Well Riser Elevation: _____		Date	4/9/2013	4/9/2013
Location Description: West of former Noland DeCoto bld. heating oil UST		Time	2:30	2:45

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner	5/2.5				0		GW	Dirt
					1			Gray gravel fill
					2		SP	Brown silty sand, fine to coarse sand, damp, no odor, no sheen
					3			
			4-5 2:40	0.0	4		Collect sample HUST-3-1	
PVC liner	5/4				5			
					6			Same as above, moist
				7-8 2:45	0.0	7		Collect sample HUST-3-2
					8			Wet
					9			
					10	ML	Brown silt, slightl plastic, wet, no odor	
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG							Job. No. 10001	Client: Yakima Airport Land Company, LLC	Location: 2810 W. Washington Ave Yakima, Wa		
Hayman Environmental, LLC							Drilling Method:		Boring No. <b>HUST-4</b>		
							Direct Push				
Coordinates: 46.572108,-120.547748							Sampling Method:		Sheet 1 of 1		
							1.25 inch clear PVC liner				
Surface Elevation: _____							Water Level		Drilling	Start	Finish
							8.75		Date	4/9/2013	4/9/2013
Well Riser Elevation: _____									Time	1:45	2:00
Location Description: North of former Noland DeCoto bld. heating oil UST							Surface Conditions:				
							Lava rock				
							Description				
PVC liner						0	GP	Gray crushed rock, fill, damp, no odor			
						1	SP	Brown sand with some silt, moist, no odor, no sheen			
	5/2					2					
						3					
				4-5 1:55	0	4		Collect sample HUST-4-1			
PVC liner						5	GW	Brown silty sand, fine to coarse sand, trace gravel, moist, no odor, no sheen			
						6					
	5/3					7					
				7.5-8.5 2:00	0	8		Collect sample HUST-4-2			
						9	Wet				
						10		Gray gravel, fine to medium grained, wet, no odor, no sheen			
								Total depth 10 ft			
						11					
						12					
						13					
						14					
						15					
						16					
						17					
						18					
						19					
						20					
						21					
						22					
						23					
						24					

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG							Job No.	Client:	Location:			
<b>Hayman Environmental, LLC</b>  Coordinates: <u>46.572025,-120.546409</u> Surface Elevation: _____ Well Riser Elevation: _____ Location Description: <u>Adacent to S. 28th Ave, 220 ft north of property corner</u>							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa			
							Drilling Method:			Boring No.		
							Direct Push			<b>DW-1</b>  Sheet 1 of 1		
							Sampling Method:					
1.25 inch clear PVC liner			Water Level			Drilling	Start	Finish				
8 ft						Date	4/10/2013	4/10/2013				
						Time	:1:45	2:00				
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:				
								Asphalt				
								<b>Description</b>				
PVC liner	5/2				0		GP	Gray rounded gravel, appears to be 1-inch drain rock, no sheen, no odor				
					1							
					2							
					3-4 8:35	0.0	3		Brown silty sand, fine to coarse sand, moist, no odor			
					4		SP	Collect sample DW-1-1-1				
PVC liner	5/4				5			Same as above				
					6							
					7-8 8:40	0.0	7		Collect sample DW-1-1-2, no odor, no sheen			
							8		Wet			
					9							
					10		Total depth 10 ft					
					11							
					12							
					13							
					14							
					15							
					16							
					17							
					18							
					19							
					20							
					21							
					22							
					23							
					24							

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job. No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa	
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>DW-2</b>	
<b>Sampling Method:</b> 1.25 inch clear PVC liner		Sheet 1 of 1	
<b>Water Level</b>		<b>Drilling</b>	<b>Start</b>
		<b>Date</b>	<b>Finish</b>
		Time	7:45 8:05

Coordinates: 46.572032,-120.546792  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: Adjacent to power pole north of 2804-2808 blds.

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner	5/1				0		GP	Lava rock
					1			Gray rounded gravel, appears to be 1-inch drain rock, no sheen, no odor
					2			
					3			
					4			
PVC liner	5/0.8				5		SP	Brown silty sand, fine to coarse sand, moist
					6			
			7.5-8.3 8:05	0.0	7			Collected sample DW-2-1-1, all recovered soil from 5-10 ft
					8			Wet
					9			
					10			Toal depth 10 ft
					11			Insufficient soil recovered to collect two samples
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG							Job No.	Client:	Location:			
<b>Hayman Environmental, LLC</b>							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa			
							Drilling Method:			Boring No.		
Coordinates: 46.571734,-120.547233							Direct Push			<b>DW-3</b>		
Surface Elevation: _____							Sampling Method:					
Well Riser Elevation: _____							1.25 inch clear PVC liner			Sheet 1 of 1		
Location Description: SW of buildings 2804-2808							Water Level			Drilling	Start	Finish
										Date	4/10/2013	4/10/2013
										Time	8:45	9:05
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:				
								Asphalt				
								<b>Description</b>				
PVC liner	5/3				0		GW	Gray gravel, crushed rock, damp, no odor				
					1							
							2	SP	Broun silty sand, no odor			
					3-4 8:55	0.0	3		Collect sample DW-3-1-1			
							4					
PVC liner	5/2				5			Same as above				
					6							
							7					
					8.5-9.5 9:00	0.0	8		Wet			
							9		4-inch grey stained layer, slight odor, insufficient soil to sheen test Collect sample DW-3-1-2 (all stained soil)			
					10		Total depth 10 ft					
					11							
					12							
					13							
					14							
					15							
					16							
					17							
					18							
					19							
					20							
					21							
					22							
					23							
					24							

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 10 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job. No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b>  <b>OSS-1</b>
<b>Sampling Method:</b> 1.25 inch clear PVC liner		
<b>Water Level</b> 8		
Coordinates: 46.571873,-120.547833		Sheet 1 of 1
Surface Elevation: _____		<b>Drilling</b>
Well Riser Elevation: _____		<b>Start</b>
Location Description: 15 ft south of oil storage shed		<b>Finish</b>
		Date
		Time
		4/9/2013
		2:50
		4/9/2013
		3:40

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:
								Description
PVC liner					0		GW	Gravel
					1		SP	Gray gravel fill
					2			Brown silty sand, moist, no odor
				3-4 2:58	0.0	3		Damp
						4		Collected sample OSS-1-1
					5	Same as above		
PVC liner					6		SW	Mottled
			6.5-7.5 3:00	0.0	7	Collected sample OSS-1-2		
					8	Wet		
					9			
PVC liner					10		SW	
	5/4			0.0	12	Brown sand with little silt, mottled, fine to medium sand		
					13			
					14			
					15			Total depth 15.5 ft
					16			
					17			Collected groundwater sample with peristaltic pump
					18			
					19			
					20			
					21			
					22			
					23			
					24			

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 15.5 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG OSS-2							Job No.	Client:	Location:		
Hayman Environmental, LLC							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa		
Coordinates: 46.571883,-120.548194							Drilling Method:		Boring No. <b>OSS-2</b>		
Surface Elevation:							Direct Push				
Well Riser Elevation:							Sampling Method:				
Location Description: South of E. end of Hanger A & adjacent to fence							1.25 inch clear PVC liner		Sheet 1 of 1		
							Water Level		Drilling	Start	Finish
							8		Date	4/9/2013	4/9/2013
									Time	5:05	5:55
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:			
					0		GW	Paved			
					1			Description			
PVC liner	5/3.2			0.0	2		SP	Graty gravel, crushed rock, subgrade			
					3			Brown silty sand, fine to medium sand, moist, no odor			
					4						
					5			Same, moist			
PVC liner	5/3		6-7 5:15	0.0	6			Collect sample OSS-2-1			
					7						
					8		ML	Wet Brown silt with fine sand, slightly plastic no odor			
					9			Brown silty sand, fine to coarse sand, no odor			
					10		SP	Same as above			
PVC liner	5/5			0.0	11						
					12						
					13			Mottled			
					14						
					15			Total depth 15 ft			
					16						
					17			Collected groundwater sample with peristaltic pump			
					18						
					19						
					20						
					21						
					22						
					23						
					24						

Logged by: Glenn A. Hayman Date: 4/9/2013 Total Depth: 15 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_



**SOIL BORING LOG**

**Hayman Environmental, LLC**

<b>Job. No.</b> 10001	<b>Client:</b> Yakima Airport Land Company, LLC	<b>Location:</b> 2810 W. Washington Ave Yakima, Wa	
<b>Drilling Method:</b> Direct Push		<b>Boring No.</b> <b>OSS-4</b>	
<b>Sampling Method:</b> 1.25 inch clear PVC liner		Sheet 1 of 1	
<b>Water Level</b> 8.5		<b>Drilling</b>	<b>Start</b>
		<b>Date</b>	<b>Finish</b>
		Time	9:50 11:05

Coordinates: 46.572071,-120.548894  
 Surface Elevation: \_\_\_\_\_  
 Well Riser Elevation: \_\_\_\_\_  
 Location Description: Southwest corner of property

Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:	
								Description	
PVC liner	5/3.5			0.0	0	SP		Brown silty sand, damp	
					1			No odor, no sheen	
					2				
					3				
					4				
PVC liner	5/3				5				Same as above, moist
					6				
			7-8 10:10		7			Collect sample OSS-4-1, no odor, trace of faint sheen	
					8			Wet	
			9						
PVC liner	5/5				10				
					11				
				0.0	12				
					13			Less silt	
			14	very silty					
			15	Total depth 15 ft					
			16						
			17	Collected groundwater sample with peristaltic pump					
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 15 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_

SOIL BORING LOG							Job. No.	Client:	Location:	
Hayman Environmental, LLC							10001	Yakima Airport Land Company, LLC	2810 W. Washington Ave Yakima, Wa	
Coordinates: 46.572222,-120.548877							Drilling Method:		Boring No. <b>OSS-5</b>	
Surface Elevation:							Direct Push			
Well Riser Elevation:							Sampling Method:			
Location Description: 10 ft SW of power pole west of Hanges A & B							1.25 inch clear PVC liner		Sheet 1 of 1	
Water Level							Drilling	Start	Finish	
							Date	4/10/2013	4/10/2013	
							Time	10:55	12:10	
Sample Type	Feet Driven/ft. Recvrd	Blow Count (per 6 in)	Sample depth/ Time	PID / FID (ppm)	Ft bgs	Sample	USCS Log	Surface Conditions:		
								Grass		
								Description		
PVC liner	5/4				0	SP		Brown silty sand, medium to fine sand, some silt, no odor, no sheen		
					1					
					2					
					3					
					4					
PVC liner	5/3				5			Same as above		
					6					
				7-8 11:25	0.0			7	Collect sample OSS-5-1, no sheen Wet	
								8		
PVC liner	5/5				9					
					10					
					0.0			12	no sheen	
					13					
					14	GP		Brown gray rounded gravel with some sand, sand medium to coarse		
					15			Total depth 15 ft		
					16					
					17			Collected groundwater sample with peristaltic pump		
					18					
					19					
					20					
					21					
					22					
					23					
					24					

Logged by: Glenn A. Hayman Date: 4/10/2013 Total Depth: 15 ft  
 Drilling Contractor: Cascade Drilling Driller: Frank Scott Depth to Bedrock: \_\_\_\_\_



**Appendix B**  
**Analytical Laboratory Report**  
**from**  
**OnSite Environmental**



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

April 19, 2013

Glenn Hayman  
Hayman Environmental, LLC  
18425 NE 95<sup>th</sup> Street, Suite 201  
Redmond, WA 98052

Re: Analytical Data for Project 10001  
Laboratory Reference No. 1304-088

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on April 10, 2013.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

David Baumeister  
Project Manager

Enclosures

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

### Case Narrative

Samples were collected on April 9 and 10, 2013 and received by the laboratory on April 10, 2013. They were maintained at the laboratory at a temperature of 2°C to 6°C.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

#### NWTPH Gx and Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Semivolatiles EPA 8270D/SIM (water) Analysis

Sample OSS-3 had one surrogate recovery out of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

#### Dissolved Lead EPA 200.8 (water) Analysis

Sediment is present in samples OSS-1, OSS-2, OSS-3, and OSS-4. The samples were field filtered.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### NWTPH-Gx

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-1-1</b>					
Laboratory ID:	04-088-07					
Gasoline	<b>ND</b>	9.2	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	70-132				
<b>Client ID:</b>	<b>FFI-1-2</b>					
Laboratory ID:	04-088-08					
Gasoline	<b>ND</b>	8.1	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	70-132				
<b>Client ID:</b>	<b>FFI-2-1</b>					
Laboratory ID:	04-088-09					
Gasoline	<b>ND</b>	8.4	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	70-132				
<b>Client ID:</b>	<b>FFI-2-2</b>					
Laboratory ID:	04-088-10					
Gasoline	<b>ND</b>	7.3	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	91	70-132				
<b>Client ID:</b>	<b>FFI-3-1</b>					
Laboratory ID:	04-088-11					
Gasoline	<b>ND</b>	7.1	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	70-132				
<b>Client ID:</b>	<b>FFI-3-2</b>					
Laboratory ID:	04-088-12					
Gasoline	<b>ND</b>	8.2	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	70-132				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### NWTPH-Gx

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Hanger A-1-1</b>					
Laboratory ID:	04-088-13					
Gasoline	<b>ND</b>	7.8	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	70-132				
<b>Client ID:</b>	<b>Hanger A-1-2</b>					
Laboratory ID:	04-088-14					
Gasoline	<b>ND</b>	6.9	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	101	70-132				
<b>Client ID:</b>	<b>Hanger A-2-1</b>					
Laboratory ID:	04-088-15					
Gasoline	<b>ND</b>	8.3	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	70-132				
<b>Client ID:</b>	<b>Hanger A-2-2</b>					
Laboratory ID:	04-088-16					
Gasoline	<b>ND</b>	8.1	NWTPH-Gx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	84	70-132				
<b>Client ID:</b>	<b>DW-1-1-1</b>					
Laboratory ID:	04-088-17					
Gasoline	<b>ND</b>	8.7	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	70-132				
<b>Client ID:</b>	<b>DW-1-1-2</b>					
Laboratory ID:	04-088-18					
Gasoline	<b>ND</b>	8.3	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	99	70-132				
<b>Client ID:</b>	<b>DW-2-1-1</b>					
Laboratory ID:	04-088-19					
Gasoline	<b>ND</b>	8.6	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	70-132				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### NWTPH-Gx

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-3-1-1</b>					
Laboratory ID:	04-088-20					
Gasoline	<b>ND</b>	8.5	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	109	70-132				
<b>Client ID:</b>	<b>DW-3-1-2</b>					
Laboratory ID:	04-088-21					
Gasoline	<b>ND</b>	7.7	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	88	70-132				
<b>Client ID:</b>	<b>OSS-1-1</b>					
Laboratory ID:	04-088-22					
Gasoline	<b>ND</b>	8.4	NWTPH-Gx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	70-132				
<b>Client ID:</b>	<b>OSS-1-2</b>					
Laboratory ID:	04-088-23					
Gasoline	<b>ND</b>	8.8	NWTPH-Gx	4-15-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	70-132				
<b>Client ID:</b>	<b>OSS-2-1</b>					
Laboratory ID:	04-088-24					
Gasoline	<b>ND</b>	8.3	NWTPH-Gx	4-15-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	70-132				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**NWTPH-Gx**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Client ID:</b>	<b>OSS-3-1</b>					
Laboratory ID:	04-088-25					
Gasoline	<b>ND</b>	8.3	NWTPH-Gx	4-15-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	90	70-132				
<b>Client ID:</b>	<b>OSS-4-1</b>					
Laboratory ID:	04-088-26					
Gasoline	<b>ND</b>	8.6	NWTPH-Gx	4-15-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	70-132				
<b>Client ID:</b>	<b>OSS-5-1</b>					
Laboratory ID:	04-088-27					
Gasoline	<b>ND</b>	10	NWTPH-Gx	4-15-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	70-132				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**NWTPH-Gx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0412S1					
Gasoline	<b>ND</b>	5.0	NWTPH-Gx	4-12-13	4-15-13	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	98	70-132				
Laboratory ID:	MB0412S2					
Gasoline	<b>ND</b>	5.0	NWTPH-Gx	4-12-13	4-12-13	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	89	70-132				
Laboratory ID:	MB0415S2					
Gasoline	<b>ND</b>	5.0	NWTPH-Gx	4-15-13	4-16-13	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
Fluorobenzene	95	70-132				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	04-088-07							
	ORIG	DUP						
Gasoline	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				91	94	70-132		
Laboratory ID:	04-098-01							
	ORIG	DUP						
Gasoline	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				89	83	70-132		
Laboratory ID:	04-115-02							
	ORIG	DUP						
Gasoline	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				97	99	70-132		

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### NWTPH-Gx

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1</b>					
Laboratory ID:	04-088-28					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	71-116				
<b>Client ID:</b>	<b>OSS-2</b>					
Laboratory ID:	04-088-29					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	71-116				
<b>Client ID:</b>	<b>OSS-3</b>					
Laboratory ID:	04-088-30					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	71-116				
<b>Client ID:</b>	<b>OSS-4</b>					
Laboratory ID:	04-088-31					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	94	71-116				
<b>Client ID:</b>	<b>OSS-5</b>					
Laboratory ID:	04-088-32					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	71-116				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**NWTPH-Gx  
 QUALITY CONTROL**

Matrix: Water  
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0411W1					
Gasoline	<b>ND</b>	100	NWTPH-Gx	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	106	71-116				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>								
Laboratory ID:	04-086-04							
	ORIG	DUP						
Gasoline	<b>ND</b>	<b>ND</b>	NA	NA	NA	NA	NA	30
<i>Surrogate:</i>								
<i>Fluorobenzene</i>				97	95	71-116		

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>HUST-1-1</b>					
Laboratory ID:	04-088-01					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
<b>Client ID:</b>	<b>HUST-1-2</b>					
Laboratory ID:	04-088-02					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	71	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
<b>Client ID:</b>	<b>HUST-3-1</b>					
Laboratory ID:	04-088-03					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	63	50-150				
<b>Client ID:</b>	<b>HUST-3-2</b>					
Laboratory ID:	04-088-04					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	72	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
<b>Client ID:</b>	<b>HUST-4-1</b>					
Laboratory ID:	04-088-05					
Diesel Range Organics	<b>ND</b>	32	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	65	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
<b>Client ID:</b>	<b>HUST-4-2</b>					
Laboratory ID:	04-088-06					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	66	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	55	50-150				

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-1-1</b>					
Laboratory ID:	04-088-07					
Diesel Range Organics	<b>ND</b>	36	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	73	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				
<b>Client ID:</b>	<b>FFI-1-2</b>					
Laboratory ID:	04-088-08					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	66	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	55	50-150				
<b>Client ID:</b>	<b>FFI-2-1</b>					
Laboratory ID:	04-088-09					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	62	50-150				
<b>Client ID:</b>	<b>FFI-2-2</b>					
Laboratory ID:	04-088-10					
Diesel Range Organics	<b>ND</b>	31	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	63	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	54	50-150				
<b>Client ID:</b>	<b>FFI-3-1</b>					
Laboratory ID:	04-088-11					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	72	50-150				
<b>Client ID:</b>	<b>FFI-3-2</b>					
Laboratory ID:	04-088-12					
Diesel Range Organics	<b>ND</b>	34	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	67	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	61	50-150				

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-1-1-1</b>					
Laboratory ID:	04-088-17					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	71	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	66	50-150				
<b>Client ID:</b>	<b>DW-1-1-2</b>					
Laboratory ID:	04-088-18					
Diesel Range Organics	<b>ND</b>	34	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	68	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
<b>Client ID:</b>	<b>DW-2-1-1</b>					
Laboratory ID:	04-088-19					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil	<b>500</b>	71	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				
<b>Client ID:</b>	<b>DW-3-1-1</b>					
Laboratory ID:	04-088-20					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
<b>Client ID:</b>	<b>DW-3-1-2</b>					
Laboratory ID:	04-088-21					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	66	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
<b>Client ID:</b>	<b>OSS-1-1</b>					
Laboratory ID:	04-088-22					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				

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### NWTPH-Dx

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1-2</b>					
Laboratory ID:	04-088-23					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	69	50-150				
<b>Client ID:</b>	<b>OSS-2-1</b>					
Laboratory ID:	04-088-24					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	69	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
<b>Client ID:</b>	<b>OSS-3-1</b>					
Laboratory ID:	04-088-25					
Diesel Range Organics	<b>ND</b>	33	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	67	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	66	50-150				
<b>Client ID:</b>	<b>OSS-4-1</b>					
Laboratory ID:	04-088-26					
Diesel Range Organics	<b>ND</b>	35	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	70	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
<b>Client ID:</b>	<b>OSS-5-1</b>					
Laboratory ID:	04-088-27					
Diesel Range Organics	<b>ND</b>	39	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	<b>ND</b>	77	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				

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**NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0415S1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-15-13	4-15-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	108	50-150				
Laboratory ID:	MB0416S2					
Diesel Range Organics	ND	25	NWTPH-Dx	4-16-13	4-16-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-16-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				
Laboratory ID:	MB0417S1					
Diesel Range Organics	ND	25	NWTPH-Dx	4-17-13	4-17-13	
Lube Oil Range Organics	ND	50	NWTPH-Dx	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	98	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>						
Laboratory ID:	04-095-01					
	ORIG	DUP				
Diesel Range Organics	ND	ND			NA	NA
Lube Oil Range Organics	ND	ND			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			91	91	50-150	
Laboratory ID:	04-088-09					
	ORIG	DUP				
Diesel Range Organics	ND	ND			NA	NA
Lube Oil Range Organics	ND	ND			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			62	63	50-150	
Laboratory ID:	04-088-11					
	ORIG	DUP				
Diesel Range Organics	ND	ND			NA	NA
Lube Oil Range Organics	ND	ND			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			72	77	50-150	
Laboratory ID:	04-088-05					
	ORIG	DUP				
Diesel Range Organics	ND	ND			NA	NA
Lube Oil Range Organics	ND	ND			NA	NA
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			82	84	50-150	

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### NWTPH-Dx

Matrix: Water  
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1</b>					
Laboratory ID:	04-088-28					
Diesel Range Organics	<b>ND</b>	0.31	NWTPH-Dx	4-12-13	4-16-13	
Lube Oil Range Organics	<b>ND</b>	0.49	NWTPH-Dx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	73	50-150				
<b>Client ID:</b>	<b>OSS-2</b>					
Laboratory ID:	04-088-29					
Diesel Range Organics	<b>ND</b>	0.28	NWTPH-Dx	4-12-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	0.45	NWTPH-Dx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
<b>Client ID:</b>	<b>OSS-3</b>					
Laboratory ID:	04-088-30					
Diesel Fuel #2	<b>0.28</b>	0.28	NWTPH-Dx	4-12-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	0.44	NWTPH-Dx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				
<b>Client ID:</b>	<b>OSS-4</b>					
Laboratory ID:	04-088-31					
Diesel Range Organics	<b>ND</b>	0.27	NWTPH-Dx	4-12-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	0.44	NWTPH-Dx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	77	50-150				
<b>Client ID:</b>	<b>OSS-5</b>					
Laboratory ID:	04-088-32					
Diesel Range Organics	<b>ND</b>	0.26	NWTPH-Dx	4-12-13	4-15-13	
Lube Oil Range Organics	<b>ND</b>	0.42	NWTPH-Dx	4-12-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	80	50-150				

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**NWTPH-Dx  
 QUALITY CONTROL**

Matrix: Water  
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB0412W1					
Diesel Range Organics	ND	0.13	NWTPH-Dx	4-12-13	4-16-13	
Lube Oil Range Organics	ND	0.20	NWTPH-Dx	4-12-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

Analyte	Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
<b>DUPLICATE</b>						
Laboratory ID:	04-087-06					
	ORIG	DUP				
Diesel Range Organics	ND	ND		NA	NA	
Lube Oil Range Organics	ND	ND		NA	NA	
<i>Surrogate:</i>						
<i>o-Terphenyl</i>			78 96	50-150		

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-1-1</b>					
Laboratory ID:	04-088-07					
Methyl t-Butyl Ether	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0087	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0035	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-1-2</b>					
Laboratory ID:	04-088-08					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0063	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0025	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-2-1</b>					
Laboratory ID:	04-088-09					
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0076	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0030	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-2-2</b>					
Laboratory ID:	04-088-10					
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0070	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0028	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-3-1</b>					
Laboratory ID:	04-088-11					
Methyl t-Butyl Ether	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0078	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0031	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0016	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-3-2</b>					
Laboratory ID:	04-088-12					
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0058	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0023	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0012	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Hanger A-1-1</b>					
Laboratory ID:	04-088-13					
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0074	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0030	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>124</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Hanger A-1-2</b>					
Laboratory ID:	04-088-14					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0063	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0025	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>111</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Hanger A-2-1</b>					
Laboratory ID:	04-088-15					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0067	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0027	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>124</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Hanger A-2-2</b>					
Laboratory ID:	04-088-16					
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0070	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0028	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>119</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-1-1-1</b>					
Laboratory ID:	04-088-17					
Methyl t-Butyl Ether	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0084	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0034	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-1-1-2</b>					
Laboratory ID:	04-088-18					
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0071	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0028	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>112</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-2-1-1</b>					
Laboratory ID:	04-088-19					
Methyl t-Butyl Ether	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0090	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0036	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0018	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-3-1-1</b>					
Laboratory ID:	04-088-20					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0066	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0027	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-3-1-2</b>					
Laboratory ID:	04-088-21					
Methyl t-Butyl Ether	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0068	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0027	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0014	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>110</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>110</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1-1</b>					
Laboratory ID:	04-088-22					
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0076	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0030	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>116</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1-2</b>					
Laboratory ID:	04-088-23					
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0074	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0030	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-2-1</b>					
Laboratory ID:	04-088-24					
Methyl t-Butyl Ether	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0076	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0030	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0015	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-3-1</b>					
Laboratory ID:	04-088-25					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
Benzene	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
Toluene	ND	0.0066	EPA 8260C	4-18-13	4-18-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
m,p-Xylene	ND	0.0026	EPA 8260C	4-18-13	4-18-13	
o-Xylene	ND	0.0013	EPA 8260C	4-18-13	4-18-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>78</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>52-125</i>				

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### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-4-1</b>					
Laboratory ID:	04-088-26					
Methyl t-Butyl Ether	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0067	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0027	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0013	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>79</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>90</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>52-125</i>				

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 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-5-1</b>					
Laboratory ID:	04-088-27					
Methyl t-Butyl Ether	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0084	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0034	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0017	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>82</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>95</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>52-125</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**VOLATILES by EPA 8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0417S1					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0050	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>52-125</i>				

Date of Report: April 19, 2013  
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**VOLATILES by EPA 8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0417S2					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Benzene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Toluene	ND	0.0050	EPA 8260C	4-17-13	4-17-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-17-13	4-17-13	
o-Xylene	ND	0.0010	EPA 8260C	4-17-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>91</i>	<i>52-125</i>				

Date of Report: April 19, 2013  
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**VOLATILES by EPA 8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0418S1					
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
Benzene	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
Toluene	ND	0.0050	EPA 8260C	4-18-13	4-18-13	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
Ethylbenzene	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
m,p-Xylene	ND	0.0020	EPA 8260C	4-18-13	4-18-13	
o-Xylene	ND	0.0010	EPA 8260C	4-18-13	4-18-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>80</i>	<i>63-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>65-129</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>52-125</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**VOLATILES by EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0417S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0546</b>	<b>0.0547</b>	0.0500	0.0500	109	109	65-141	0	15	
Benzene	<b>0.0504</b>	<b>0.0510</b>	0.0500	0.0500	101	102	69-121	1	15	
Trichloroethene	<b>0.0501</b>	<b>0.0495</b>	0.0500	0.0500	100	99	75-120	1	15	
Toluene	<b>0.0495</b>	<b>0.0488</b>	0.0500	0.0500	99	98	75-120	1	15	
Chlorobenzene	<b>0.0521</b>	<b>0.0518</b>	0.0500	0.0500	104	104	75-120	1	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					<i>102</i>	<i>101</i>	<i>63-127</i>			
<i>Toluene-d8</i>					<i>101</i>	<i>99</i>	<i>65-129</i>			
<i>4-Bromofluorobenzene</i>					<i>99</i>	<i>100</i>	<i>52-125</i>			

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**VOLATILES by EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0417S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0535</b>	<b>0.0508</b>	0.0500	0.0500	107	102	65-141	5	15	
Benzene	<b>0.0471</b>	<b>0.0447</b>	0.0500	0.0500	94	89	69-121	5	15	
Trichloroethene	<b>0.0531</b>	<b>0.0498</b>	0.0500	0.0500	106	100	75-120	6	15	
Toluene	<b>0.0499</b>	<b>0.0481</b>	0.0500	0.0500	100	96	75-120	4	15	
Chlorobenzene	<b>0.0549</b>	<b>0.0519</b>	0.0500	0.0500	110	104	75-120	6	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					88	81	63-127			
<i>Toluene-d8</i>					92	86	65-129			
<i>4-Bromofluorobenzene</i>					95	88	52-125			

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**VOLATILES by EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	RPD	Limit		
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0418S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	<b>0.0468</b>	<b>0.0483</b>	0.0500	0.0500	94	97	65-141	3	15	
Benzene	<b>0.0402</b>	<b>0.0425</b>	0.0500	0.0500	80	85	69-121	6	15	
Trichloroethene	<b>0.0486</b>	<b>0.0513</b>	0.0500	0.0500	97	103	75-120	5	15	
Toluene	<b>0.0470</b>	<b>0.0486</b>	0.0500	0.0500	94	97	75-120	3	15	
Chlorobenzene	<b>0.0484</b>	<b>0.0524</b>	0.0500	0.0500	97	105	75-120	8	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					79	84	63-127			
<i>Toluene-d8</i>					92	95	65-129			
<i>4-Bromofluorobenzene</i>					98	104	52-125			

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1</b>					
Laboratory ID:	04-088-28					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
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 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-2</b>					
Laboratory ID:	04-088-29					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
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 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-3</b>					
Laboratory ID:	04-088-30					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-4</b>					
Laboratory ID:	04-088-31					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-5</b>					
Laboratory ID:	04-088-32					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>93</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>86</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### VOLATILES by EPA 8260C

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>Trip Blank</b>					
Laboratory ID:	04-088-33					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>93</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**VOLATILES by EPA 8260C  
 METHOD BLANK QUALITY CONTROL**

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0411W1					
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Benzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Toluene	ND	1.0	EPA 8260C	4-11-13	4-11-13	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-11-13	4-11-13	
Ethylbenzene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
m,p-Xylene	ND	0.40	EPA 8260C	4-11-13	4-11-13	
o-Xylene	ND	0.20	EPA 8260C	4-11-13	4-11-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>66-120</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>63-120</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
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**VOLATILES by EPA 8260C  
 SB/SBD QUALITY CONTROL**

Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					SB	SBD	Limits	RPD	Limit	
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0411W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.52	8.35	10.0	10.0	85	84	65-141	2	15	
Benzene	8.67	8.47	10.0	10.0	87	85	77-125	2	15	
Trichloroethene	8.46	8.56	10.0	10.0	85	86	80-125	1	15	
Toluene	8.64	8.55	10.0	10.0	86	86	80-125	1	15	
Chlorobenzene	9.36	9.38	10.0	10.0	94	94	80-140	0	15	
<i>Surrogate:</i>										
<i>Dibromofluoromethane</i>					103	104	66-120			
<i>Toluene-d8</i>					98	99	70-120			
<i>4-Bromofluorobenzene</i>					95	98	63-120			

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-1-1</b>					
Laboratory ID:	04-088-07					
Naphthalene	ND	0.0097	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0097	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0097	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	64	43 - 116				
<i>Pyrene-d10</i>	75	33 - 124				
<i>Terphenyl-d14</i>	75	38 - 125				
<b>Client ID:</b>	<b>FFI-1-2</b>					
Laboratory ID:	04-088-08					
Naphthalene	ND	0.0089	EPA 8270D/SIM	4-11-13	4-15-13	
2-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	4-11-13	4-15-13	
1-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	4-11-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	75	43 - 116				
<i>Pyrene-d10</i>	71	33 - 124				
<i>Terphenyl-d14</i>	75	38 - 125				
<b>Client ID:</b>	<b>FFI-2-1</b>					
Laboratory ID:	04-088-09					
Naphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	74	43 - 116				
<i>Pyrene-d10</i>	75	33 - 124				
<i>Terphenyl-d14</i>	76	38 - 125				
<b>Client ID:</b>	<b>FFI-2-2</b>					
Laboratory ID:	04-088-10					
Naphthalene	ND	0.0084	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0084	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	74	43 - 116				
<i>Pyrene-d10</i>	72	33 - 124				
<i>Terphenyl-d14</i>	75	38 - 125				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>FFI-3-1</b>					
Laboratory ID:	04-088-11					
Naphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-15-13	
2-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-15-13	
1-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	69	43 - 116				
<i>Pyrene-d10</i>	69	33 - 124				
<i>Terphenyl-d14</i>	75	38 - 125				
<b>Client ID:</b>	<b>FFI-3-2</b>					
Laboratory ID:	04-088-12					
Naphthalene	ND	0.0090	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0090	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0090	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	70	43 - 116				
<i>Pyrene-d10</i>	71	33 - 124				
<i>Terphenyl-d14</i>	76	38 - 125				
<b>Client ID:</b>	<b>Hanger A-1-1</b>					
Laboratory ID:	04-088-13					
Naphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	72	43 - 116				
<i>Pyrene-d10</i>	63	33 - 124				
<i>Terphenyl-d14</i>	67	38 - 125				
<b>Client ID:</b>	<b>Hanger A-1-2</b>					
Laboratory ID:	04-088-14					
Naphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0086	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	75	43 - 116				
<i>Pyrene-d10</i>	75	33 - 124				
<i>Terphenyl-d14</i>	82	38 - 125				

Date of Report: April 19, 2013  
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 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>		<b>Hanger A-2-1</b>				
Laboratory ID:	04-088-15					
Naphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	80	43 - 116				
Pyrene-d10	76	33 - 124				
Terphenyl-d14	80	38 - 125				
<b>Client ID:</b>		<b>Hanger A-2-2</b>				
Laboratory ID:	04-088-16					
Naphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	85	43 - 116				
Pyrene-d10	74	33 - 124				
Terphenyl-d14	80	38 - 125				
<b>Client ID:</b>		<b>DW-1-1-1</b>				
Laboratory ID:	04-088-17					
Naphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	88	43 - 116				
Pyrene-d10	80	33 - 124				
Terphenyl-d14	81	38 - 125				
<b>Client ID:</b>		<b>DW-1-1-2</b>				
Laboratory ID:	04-088-18					
Naphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0091	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	67	43 - 116				
Pyrene-d10	68	33 - 124				
Terphenyl-d14	71	38 - 125				

Date of Report: April 19, 2013  
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 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>DW-2-1-1</b>					
Laboratory ID:	04-088-19					
Naphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
2-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
1-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-11-13	4-16-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	63	43 - 116				
<i>Pyrene-d10</i>	72	33 - 124				
<i>Terphenyl-d14</i>	79	38 - 125				
<b>Client ID:</b>	<b>DW-3-1-1</b>					
Laboratory ID:	04-088-20					
Naphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	69	43 - 116				
<i>Pyrene-d10</i>	78	33 - 124				
<i>Terphenyl-d14</i>	76	38 - 125				
<b>Client ID:</b>	<b>DW-3-1-2</b>					
Laboratory ID:	04-088-21					
Naphthalene	<b>0.024</b>	0.0087	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	<b>0.12</b>	0.0087	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	<b>0.079</b>	0.0087	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	77	43 - 116				
<i>Pyrene-d10</i>	81	33 - 124				
<i>Terphenyl-d14</i>	83	38 - 125				
<b>Client ID:</b>	<b>OSS-1-1</b>					
Laboratory ID:	04-088-22					
Naphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	74	43 - 116				
<i>Pyrene-d10</i>	94	33 - 124				
<i>Terphenyl-d14</i>	93	38 - 125				

Date of Report: April 19, 2013  
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 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1-2</b>					
Laboratory ID:	04-088-23					
Naphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	ND	0.0094	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	86	43 - 116				
Pyrene-d10	89	33 - 124				
Terphenyl-d14	92	38 - 125				
<b>Client ID:</b>	<b>OSS-2-1</b>					
Laboratory ID:	04-088-24					
Naphthalene	ND	0.0092	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	ND	0.0092	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	77	43 - 116				
Pyrene-d10	86	33 - 124				
Terphenyl-d14	87	38 - 125				
<b>Client ID:</b>	<b>OSS-3-1</b>					
Laboratory ID:	04-088-25					
Naphthalene	0.014	0.0089	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	ND	0.0089	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	80	43 - 116				
Pyrene-d10	81	33 - 124				
Terphenyl-d14	83	38 - 125				
<b>Client ID:</b>	<b>OSS-4-1</b>					
Laboratory ID:	04-088-26					
Naphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	ND	0.0093	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
2-Fluorobiphenyl	87	43 - 116				
Pyrene-d10	81	33 - 124				
Terphenyl-d14	83	38 - 125				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-5-1</b>					
Laboratory ID:	04-088-27					
Naphthalene	<b>0.010</b>	0.010	EPA 8270D/SIM	4-12-13	4-17-13	
2-Methylnaphthalene	<b>ND</b>	0.010	EPA 8270D/SIM	4-12-13	4-17-13	
1-Methylnaphthalene	<b>ND</b>	0.010	EPA 8270D/SIM	4-12-13	4-17-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>69</i>	<i>43 - 116</i>				
<i>Pyrene-d10</i>	<i>82</i>	<i>33 - 124</i>				
<i>Terphenyl-d14</i>	<i>85</i>	<i>38 - 125</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**SEMIVOLATILES by EPA 8270D/SIM  
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
<b>Laboratory ID: MB0411S1</b>						
Naphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-11-13	4-12-13	
2-Methylnaphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-11-13	4-12-13	
1-Methylnaphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-11-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>43 - 116</i>				
<i>Pyrene-d10</i>	<i>102</i>	<i>33 - 124</i>				
<i>Terphenyl-d14</i>	<i>99</i>	<i>38 - 125</i>				
<b>Laboratory ID: MB0412S1</b>						
Naphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	<b>ND</b>	0.0067	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>73</i>	<i>43 - 116</i>				
<i>Pyrene-d10</i>	<i>99</i>	<i>33 - 124</i>				
<i>Terphenyl-d14</i>	<i>99</i>	<i>38 - 125</i>				

Date of Report: April 19, 2013  
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 Project: 10001

**SEMIVOLATILES by EPA 8270D/SIM  
 MS/MSD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD	Limit		
<b>MATRIX SPIKES</b>											
Laboratory ID:	04-088-11										
	MS	MSD	MS	MSD		MS	MSD				
Naphthalene	0.141	0.113	0.167	0.167	ND	84	68	47 - 99	22	30	
Acenaphthylene	0.134	0.109	0.167	0.167	ND	80	65	41 - 118	21	26	
Acenaphthene	0.137	0.114	0.167	0.167	ND	82	68	43 - 112	18	28	
Fluorene	0.150	0.133	0.167	0.167	ND	90	80	41 - 119	12	25	
Phenanthrene	0.140	0.128	0.167	0.167	ND	84	77	40 - 115	9	24	
Anthracene	0.170	0.148	0.167	0.167	ND	102	89	41 - 117	14	25	
Fluoranthene	0.141	0.127	0.167	0.167	ND	84	76	36 - 128	10	26	
Pyrene	0.137	0.122	0.167	0.167	ND	82	73	36 - 123	12	24	
Benzo[a]anthracene	0.147	0.121	0.167	0.167	ND	88	72	33 - 126	19	26	
Chrysene	0.138	0.121	0.167	0.167	ND	83	72	35 - 123	13	25	
Benzo[b]fluoranthene	0.152	0.119	0.167	0.167	ND	91	71	30 - 125	24	28	
Benzo(j,k)fluoranthene	0.142	0.118	0.167	0.167	ND	85	71	31 - 122	18	30	
Benzo[a]pyrene	0.145	0.118	0.167	0.167	ND	87	71	29 - 125	21	28	
Indeno(1,2,3-c,d)pyrene	0.142	0.119	0.167	0.167	ND	85	71	28 - 125	18	27	
Dibenz[a,h]anthracene	0.147	0.125	0.167	0.167	ND	88	75	32 - 124	16	27	
Benzo[g,h,i]perylene	0.140	0.114	0.167	0.167	ND	84	68	30 - 120	20	26	
<i>Surrogate:</i>											
2-Fluorobiphenyl						85	70	43 - 116			
Pyrene-d10						79	71	33 - 124			
Terphenyl-d14						84	71	38 - 125			

Date of Report: April 19, 2013  
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 Project: 10001

**SEMIVOLATILES by EPA 8270D/SIM  
 MS/MSD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent		Recovery		RPD	Limit	Flags
	MS	MSD	MS	MSD	Result	Recovery	Limits	RPD				
<b>MATRIX SPIKES</b>												
Laboratory ID:	04-088-22											
	MS	MSD	MS	MSD		MS	MSD					
Naphthalene	0.120	0.129	0.167	0.167	ND	72	77	47 - 99	7		30	
Acenaphthylene	0.143	0.148	0.167	0.167	ND	86	89	41 - 118	3		26	
Acenaphthene	0.138	0.139	0.167	0.167	ND	83	83	43 - 112	1		28	
Fluorene	0.136	0.138	0.167	0.167	ND	81	83	41 - 119	1		25	
Phenanthrene	0.130	0.134	0.167	0.167	ND	78	80	40 - 115	3		24	
Anthracene	0.177	0.182	0.167	0.167	ND	106	109	41 - 117	3		25	
Fluoranthene	0.156	0.162	0.167	0.167	ND	93	97	36 - 128	4		26	
Pyrene	0.150	0.158	0.167	0.167	ND	90	95	36 - 123	5		24	
Benzo[a]anthracene	0.128	0.133	0.167	0.167	ND	77	80	33 - 126	4		26	
Chrysene	0.118	0.120	0.167	0.167	ND	71	72	35 - 123	2		25	
Benzo[b]fluoranthene	0.109	0.111	0.167	0.167	ND	65	66	30 - 125	2		28	
Benzo(j,k)fluoranthene	0.104	0.109	0.167	0.167	ND	62	65	31 - 122	5		30	
Benzo[a]pyrene	0.121	0.124	0.167	0.167	ND	72	74	29 - 125	2		28	
Indeno(1,2,3-c,d)pyrene	0.140	0.144	0.167	0.167	ND	84	86	28 - 125	3		27	
Dibenz[a,h]anthracene	0.137	0.140	0.167	0.167	ND	82	84	32 - 124	2		27	
Benzo[g,h,i]perylene	0.129	0.131	0.167	0.167	ND	77	78	30 - 120	2		26	
<i>Surrogate:</i>												
2-Fluorobiphenyl						69	72	43 - 116				
Pyrene-d10						91	94	33 - 124				
Terphenyl-d14						87	89	38 - 125				

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### SEMIVOLATILES EPA 8270D/SIM

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-1</b>					
Laboratory ID:	04-088-28					
Naphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>79</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>104</i>	<i>41 - 106</i>				
<i>Terphenyl-d14</i>	<i>119</i>	<i>44 - 124</i>				
<b>Client ID:</b>	<b>OSS-2</b>					
Laboratory ID:	04-088-29					
Naphthalene	0.13	0.11	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	0.34	0.11	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	0.33	0.11	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>74</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>104</i>	<i>41 - 106</i>				
<i>Terphenyl-d14</i>	<i>113</i>	<i>44 - 124</i>				
<b>Client ID:</b>	<b>OSS-3</b>					
Laboratory ID:	04-088-30					
Naphthalene	ND	0.097	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	ND	0.097	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>76</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>112</i>	<i>41 - 106</i>				Q
<i>Terphenyl-d14</i>	<i>117</i>	<i>44 - 124</i>				
<b>Client ID:</b>	<b>OSS-4</b>					
Laboratory ID:	04-088-31					
Naphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	ND	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>57</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>105</i>	<i>41 - 106</i>				
<i>Terphenyl-d14</i>	<i>118</i>	<i>44 - 124</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### SEMIVOLATILES EPA 8270D/SIM

Matrix: Water  
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>OSS-5</b>					
Laboratory ID:	04-088-32					
Naphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-15-13	4-15-13	
2-Methylnaphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-15-13	4-15-13	
1-Methylnaphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-15-13	4-15-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>77</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>81</i>	<i>41 - 106</i>				
<i>Terphenyl-d14</i>	<i>107</i>	<i>44 - 124</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**SEMIVOLATILES by EPA 8270D/SIM  
 METHOD BLANK QUALITY CONTROL**

Matrix: Water  
 Units: ug/L

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Laboratory ID:	MB0412W1					
Naphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
2-Methylnaphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
1-Methylnaphthalene	<b>ND</b>	0.10	EPA 8270D/SIM	4-12-13	4-12-13	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>2-Fluorobiphenyl</i>	<i>59</i>	<i>40 - 107</i>				
<i>Pyrene-d10</i>	<i>98</i>	<i>41 - 106</i>				
<i>Terphenyl-d14</i>	<i>108</i>	<i>44 - 124</i>				

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**SEMIVOLATILES by EPA 8270D/SIM  
 SB/SBD QUALITY CONTROL**

Matrix: Water  
 Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
	SB	SBD	SB	SBD	SB	SBD				
<b>SPIKE BLANKS</b>										
Laboratory ID:	SB0412W1									
Naphthalene	<b>0.290</b>	<b>0.213</b>	0.500	0.500	58	43	31 - 110	31	46	
Acenaphthylene	<b>0.380</b>	<b>0.343</b>	0.500	0.500	76	69	40 - 118	10	43	
Acenaphthene	<b>0.371</b>	<b>0.332</b>	0.500	0.500	74	66	38 - 112	11	40	
Fluorene	<b>0.384</b>	<b>0.402</b>	0.500	0.500	77	80	45 - 114	5	41	
Phenanthrene	<b>0.420</b>	<b>0.450</b>	0.500	0.500	84	90	47 - 112	7	36	
Anthracene	<b>0.558</b>	<b>0.596</b>	0.500	0.500	112	119	46 - 122	7	37	
Fluoranthene	<b>0.507</b>	<b>0.545</b>	0.500	0.500	101	109	51 - 127	7	35	
Pyrene	<b>0.532</b>	<b>0.570</b>	0.500	0.500	106	114	50 - 125	7	37	
Benzo[a]anthracene	<b>0.444</b>	<b>0.471</b>	0.500	0.500	89	94	46 - 123	6	34	
Chrysene	<b>0.392</b>	<b>0.406</b>	0.500	0.500	78	81	49 - 120	4	34	
Benzo[b]fluoranthene	<b>0.387</b>	<b>0.414</b>	0.500	0.500	77	83	46 - 126	7	37	
Benzo(j,k)fluoranthene	<b>0.381</b>	<b>0.402</b>	0.500	0.500	76	80	43 - 125	5	39	
Benzo[a]pyrene	<b>0.411</b>	<b>0.432</b>	0.500	0.500	82	86	44 - 129	5	37	
Indeno(1,2,3-c,d)pyrene	<b>0.495</b>	<b>0.528</b>	0.500	0.500	99	106	40 - 124	6	42	
Dibenz[a,h]anthracene	<b>0.474</b>	<b>0.499</b>	0.500	0.500	95	100	35 - 122	5	44	
Benzo[g,h,i]perylene	<b>0.449</b>	<b>0.477</b>	0.500	0.500	90	95	37 - 122	6	45	
<i>Surrogate:</i>										
2-Fluorobiphenyl					60	48	40 - 107			
Pyrene-d10					100	105	41 - 106			
Terphenyl-d14					110	116	44 - 124			

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**TOTAL LEAD  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-088-07					
<b>Client ID:</b>	<b>FFI-1-1</b>					
Lead	<b>8.0</b>	7.3	6010C	4-12-13	4-12-13	
Lab ID:	04-088-08					
<b>Client ID:</b>	<b>FFI-1-2</b>					
Lead	<b>ND</b>	6.6	6010C	4-12-13	4-12-13	
Lab ID:	04-088-09					
<b>Client ID:</b>	<b>FFI-2-1</b>					
Lead	<b>ND</b>	7.0	6010C	4-12-13	4-12-13	
Lab ID:	04-088-10					
<b>Client ID:</b>	<b>FFI-2-2</b>					
Lead	<b>8.0</b>	6.3	6010C	4-12-13	4-12-13	
Lab ID:	04-088-11					
<b>Client ID:</b>	<b>FFI-3-1</b>					
Lead	<b>ND</b>	6.9	6010C	4-12-13	4-12-13	
Lab ID:	04-088-12					
<b>Client ID:</b>	<b>FFI-3-2</b>					
Lead	<b>8.0</b>	6.7	6010C	4-12-13	4-12-13	
Lab ID:	04-088-13					
<b>Client ID:</b>	<b>Hanger A-1-1</b>					
Lead	<b>14</b>	6.4	6010C	4-12-13	4-12-13	

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**TOTAL LEAD  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-088-14					
<b>Client ID:</b>	<b>Hanger A-1-2</b>					
Lead	<b>14</b>	6.4	6010C	4-12-13	4-12-13	
Lab ID:	04-088-15					
<b>Client ID:</b>	<b>Hanger A-2-1</b>					
Lead	<b>11</b>	6.8	6010C	4-12-13	4-12-13	
Lab ID:	04-088-16					
<b>Client ID:</b>	<b>Hanger A-2-2</b>					
Lead	<b>20</b>	6.9	6010C	4-12-13	4-12-13	
Lab ID:	04-088-17					
<b>Client ID:</b>	<b>DW-1-1-1</b>					
Lead	<b>7.2</b>	7.1	6010C	4-12-13	4-12-13	
Lab ID:	04-088-18					
<b>Client ID:</b>	<b>DW-1-1-2</b>					
Lead	<b>6.9</b>	6.8	6010C	4-12-13	4-12-13	
Lab ID:	04-088-19					
<b>Client ID:</b>	<b>DW-2-1-1</b>					
Lead	<b>8.1</b>	7.1	6010C	4-12-13	4-12-13	
Lab ID:	04-088-20					
<b>Client ID:</b>	<b>DW-3-1-1</b>					
Lead	<b>ND</b>	6.9	6010C	4-12-13	4-12-13	

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**TOTAL LEAD  
 EPA 6010C**

Matrix: Soil  
 Units: mg/kg (ppm)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-088-21					
<b>Client ID:</b>	<b>DW-3-1-2</b>					
Lead	<b>7.1</b>	6.6	6010C	4-12-13	4-12-13	
Lab ID:	04-088-22					
<b>Client ID:</b>	<b>OSS-1-1</b>					
Lead	<b>ND</b>	7.0	6010C	4-12-13	4-12-13	
Lab ID:	04-088-23					
<b>Client ID:</b>	<b>OSS-1-2</b>					
Lead	<b>10</b>	7.0	6010C	4-12-13	4-12-13	
Lab ID:	04-088-24					
<b>Client ID:</b>	<b>OSS-2-1</b>					
Lead	<b>8.4</b>	6.9	6010C	4-12-13	4-12-13	
Lab ID:	04-088-25					
<b>Client ID:</b>	<b>OSS-3-1</b>					
Lead	<b>ND</b>	6.7	6010C	4-12-13	4-12-13	
Lab ID:	04-088-26					
<b>Client ID:</b>	<b>OSS-4-1</b>					
Lead	<b>ND</b>	7.0	6010C	4-12-13	4-12-13	
Lab ID:	04-088-27					
<b>Client ID:</b>	<b>OSS-5-1</b>					
Lead	<b>8.8</b>	7.7	6010C	4-12-13	4-12-13	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-12-13  
Date Analyzed: 4-12-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0412SM1

Analyte	Method	Result	PQL
Lead	6010C	<b>ND</b>	5.0

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 4-12-13  
Date Analyzed: 4-12-13  
  
Matrix: Soil  
Units: mg/kg (ppm)  
  
Lab ID: MB0412SM2

Analyte	Method	Result	PQL
Lead	6010C	<b>ND</b>	5.0

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-12-13

Date Analyzed: 4-12-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-097-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 4-12-13

Date Analyzed: 4-12-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-088-11

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 4-12-13

Date Analyzed: 4-12-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-097-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	<b>232</b>	93	<b>245</b>	98	5	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**TOTAL LEAD  
EPA 6010C  
MS/MSD QUALITY CONTROL**

Date Extracted: 4-12-13

Date Analyzed: 4-12-13

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 04-088-11

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	250	<b>217</b>	87	<b>217</b>	87	0	

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

**DISSOLVED LEAD  
 EPA 200.8**

Matrix: Water  
 Units: ug/L (ppb)

<b>Analyte</b>	<b>Result</b>	<b>PQL</b>	<b>EPA Method</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>	<b>Flags</b>
Lab ID:	04-088-28					
<b>Client ID:</b>	<b>OSS-1</b>					
Lead	<b>1.8</b>	1.0	200.8		4-15-13	
Lab ID:	04-088-29					
<b>Client ID:</b>	<b>OSS-2</b>					
Lead	<b>ND</b>	1.0	200.8		4-15-13	
Lab ID:	04-088-30					
<b>Client ID:</b>	<b>OSS-3</b>					
Lead	<b>ND</b>	1.0	200.8		4-15-13	
Lab ID:	04-088-31					
<b>Client ID:</b>	<b>OSS-4</b>					
Lead	<b>ND</b>	1.0	200.8		4-15-13	
Lab ID:	04-088-32					
<b>Client ID:</b>	<b>OSS-5</b>					
Lead	<b>ND</b>	1.0	200.8		4-15-13	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**DISSOLVED LEAD  
EPA 200.8  
METHOD BLANK QUALITY CONTROL**

Date Analyzed: 4-15-13  
Matrix: Water  
Units: ug/L (ppb)  
Lab ID: MB0415D1

Analyte	Method	Result	PQL
Lead	200.8	<b>ND</b>	1.0

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**DISSOLVED LEAD  
EPA 200.8  
DUPLICATE QUALITY CONTROL**

Date Analyzed: 4-15-13

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 04-114-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Lead	<b>ND</b>	<b>ND</b>	NA	1.0	

Date of Report: April 19, 2013  
Samples Submitted: April 10, 2013  
Laboratory Reference: 1304-088  
Project: 10001

**DISSOLVED LEAD  
EPA 200.8  
MS/MSD QUALITY CONTROL**

Date Analyzed: 4-15-13

Matrix: Water  
Units: ug/L (ppb)

Lab ID: 04-114-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Lead	200	<b>194</b>	97	<b>196</b>	98	1	

Date of Report: April 19, 2013  
 Samples Submitted: April 10, 2013  
 Laboratory Reference: 1304-088  
 Project: 10001

### % MOISTURE

Date Analyzed: 4-11&12-13

Client ID	Lab ID	% Moisture
HUST-1-1	04-088-01	29
HUST-1-2	04-088-02	30
HUST-3-1	04-088-03	29
HUST-3-2	04-088-04	30
HUST-4-1	04-088-05	23
HUST-4-2	04-088-06	25
FFI-1-1	04-088-07	31
FFI-1-2	04-088-08	25
FFI-2-1	04-088-09	29
FFI-2-2	04-088-10	20
FFI-3-1	04-088-11	27
FFI-3-2	04-088-12	26
Hanger A-1-1	04-088-13	22
Hanger A-1-2	04-088-14	22
Hanger A-2-1	04-088-15	26
Hanger A-2-2	04-088-16	27
DW-1-1-1	04-088-17	29
DW-1-1-2	04-088-18	27
DW-2-1-1	04-088-19	29
DW-3-1-1	04-088-20	28
DW-3-1-2	04-088-21	24
OSS-1-1	04-088-22	29
OSS-1-2	04-088-23	29
OSS-2-1	04-088-24	28
OSS-3-1	04-088-25	25
OSS-4-1	04-088-26	28
OSS-5-1	04-088-27	35



### Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
  - B - The analyte indicated was also found in the blank sample.
  - C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
  - E - The value reported exceeds the quantitation range and is an estimate.
  - F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
  - H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
  - I - Compound recovery is outside of the control limits.
  - J - The value reported was below the practical quantitation limit. The value is an estimate.
  - K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
  - L - The RPD is outside of the control limits.
  - M - Hydrocarbons in the gasoline range are impacting the diesel range result.
  - M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
  - N - Hydrocarbons in the lube oil range are impacting the diesel range result.
  - N1 - Hydrocarbons in diesel range are impacting lube oil range results.
  - O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
  - P - The RPD of the detected concentrations between the two columns is greater than 40.
  - Q - Surrogate recovery is outside of the control limits.
  - S - Surrogate recovery data is not available due to the necessary dilution of the sample.
  - T - The sample chromatogram is not similar to a typical \_\_\_\_\_.
  - U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
  - U1 - The practical quantitation limit is elevated due to interferences present in the sample.
  - V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
  - W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
  - X - Sample extract treated with a mercury cleanup procedure.
  - Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
  - Z -
- ND - Not Detected at PQL  
 PQL - Practical Quantitation Limit  
 RPD - Relative Percent Difference



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# Chain of Custody

Laboratory Number: **04-088**

Company: Hayman Environmental  
 Project Number: 10001  
 Project Name: Noland DeCoto  
 Project Manager: G.A. Hayman  
 Sampled by: G.A. Hayman

Turnaround Request (in working days)  
 (Check One)  
 Same Day  
 1 Day  
 2 Days  
 3 Days  
 Standard (7 Days) (TPH analysis 5 Days)  
 (other) \_\_\_\_\_

Lab ID	Sample Identification	Number of Containers		Date Sampled	Time Sampled	Matrix	NWT-PH-HCID	NWT-PH-GX/BTEX	NWT-PH-GX	NWT-PH-DX	Volatiles 8260C	Halogenated Volatiles 8260C	SemiVolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ MCA Metals (circle one)	TCLP Metals	HEM (oil and grease) 1664A	% Moisture	
		1	2																				
1	HUST-1-1	1	1	4/9	2:19	Soil				X													X
2	HUST-1-2	1	1	4/9	2:24																		X
	<del>HUST-2-1</del> no sample	1	1																				
	<del>HUST-2-2</del> no sample	1	1																				
3	HUST-3-1	1	1	4/9/13	2:40																		X
4	HUST-3-2	1	1	4/9/13	2:45																		X
5	HUST-4-1	1	1	4/9/13	1:55																		X
6	HUST-4-2	1	1	4/9	2:00																		X

Signature	Company	Date	Time	Comments/Special Instructions
	Hayman Env	4/10/13	4:35	EPD
	OnSite Env	4/10/13	14:35	
Reviewed/Date	Reviewed/Date			Chromatograms with final report <input type="checkbox"/>







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# Chain of Custody

Laboratory Number: **04-088**

Company: Hayman Environmental  
 Project Number: 10001  
 Project Name: Norland DeCoto  
 Project Manager: G.A. Hayman  
 Sampled by: G.A. Hayman

**Turnaround Request (in working days)**

(Check One)

Same Day  1 Day

2 Days  3 Days

Standard (7 Days)  
 (TPH analysis 5 Days)

(other) \_\_\_\_\_

**Number of Containers**

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	NWTPH-HCID	NWTPH-GX/BTEX	NWTPH-GX	NWTPH-DX	Volatiles 8260C *	Halogenated Volatiles 8260C	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals/ M/CA Metals (circle one)	Total Lead	TCLP Metals	HEM (oil and grease) 1664A	VPH archive	EPA archive	% Moisture	
24	OSS-4-1	4/10/13	10:10	Soil	6	X	X	X	X	X	X	X						X				X	X	
27	OSS-5-1	4/10/13	11:25	↓	↓	X	X	X	X	X	X	X						X				X	X	
28	OSS-1	4/9/13	3:20	Water	13	X	X	X	X	X	X	X						X				X	X	
29	OSS-2	4/9/13	5:35	↓	↓	X	X	X	X	X	X	X						X				X	X	
30	OSS-3	4/9/13	12:05	↓	↓	X	X	X	X	X	X	X						X				X	X	
31	OSS-4	4/10/13	10:40	↓	↓	X	X	X	X	X	X	X						X				X	X	
32	OSS-5	4/10/13	11:45	↓	↓	X	X	X	X	X	X	X						X				X	X	
33	Trip Blanks			W	1				X															

Signature	Company	Date	Time	Comments/Special Instructions
	Hayman	4/10/13	4:35	EDD
	Hayman	4/10/13	10:35	* PTEX, MTBE, EDA, EDC