**DEPARTMENT OF THE AIR FORCE**
**HEADQUARTERS 49TH FIGHTER WING (ACC)**
**HOLLOMAN AIR FORCE BASE, NEW MEXICO**

ENTERED

MEMORANDUM FOR NEW MEXICO ENVIRONMENT DEPARTMENT
Attn: Mr. James Bearzi
Hazardous Waste Bureau
2905 Rodeo Park Drive East
Santa Fe NM 87105-6303

JUL 16 2008

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NMED Hazardous Waste Bureau

FROM: 49 CES/CD
550 Tabosa Ave
Holloman AFB NM 88330-8458

Subject: West POL Yard Accelerated Corrective Measures Completion Report, Holloman AFB, NM6572124422

1. The subject report is hereby submitted to NMED for review and approval.

2. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

3. If you have any questions, please feel free to contact Mr. David Scruggs at (575) 572-5395.

for Wilbur L. Hartwell

A. DAVID BUDAK
Deputy Base Civil Engineer

cc:

| (w/Atch) | (w/o Atch) | (w/o Atch) |
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# FINAL
# WEST POL YARD
# ACCELERATED CORRECTIVE MEASURES
# COMPLETION REPORT
# HOLLOMAN AFB, NEW MEXICO

**Holloman Air Force Base**
**New Mexico**

**July 2008**

**Contract No.: DACA45-03-D-0023**
**Task Order: 0006**
**Bhate Project No.: 9040238.11.01**

**Headquarters, Air Combat Command**
**Langley Air Force Base, Virginia**

**49 CES/CEV**
**Holloman Air Force Base, New Mexico**

*FINAL*

# WEST POL YARD
# ACCELERATED CORRECTIVE MEASURES
# COMPLETION REPORT
# HOLLOMAN AIR FORCE BASE, NEW MEXICO

Prepared for:

**49 CES/CEV**
**Holloman Air Force Base**
**New Mexico**

Under Contract To:

**U.S. Army Corps of Engineers**
**Omaha, Nebraska**
**Contract No. DACA45-03-D-0023**
**Task Order No. 006**

Prepared by:

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**Bhate Project No. 9040238**

**July 2008**
**Revision No. 00**

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# FINAL

# WEST POL YARD ACCELERATED CORRECTIVE MEASURES COMPLETION REPORT

# HOLLOMAN AIR FORCE BASE, NEW MEXICO

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# LIST OF ACRONYMS

| | |
|---|---|
| AAF | Army Air Field |
| ACC | Air Combat Command |
| ACM | Accelerated Corrective Measures |
| amsl | Above mean sea level |
| AOC | Area of Concern |
| AST | Aboveground Storage Tank |
| ASTM | American Society for Testing and Materials |
| atm-$m^3$/mol | Atmospheric-cubic meters per mole |
| bgs | Below ground surface |
| Bhate | Bhate Environmental Associates, Inc. |
| COPC | Chemicals of potential concern |
| cm/sec | Centimeters per second |
| cy | Cubic yards |
| DPT | Direct push technology |
| DQO | Data quality objectives |
| DRO | Diesel Range Organics |
| EM | Exposure Model |
| EPA | Environmental Protection Agency |
| ERP | Environmental Restoration Program |
| °F | Degrees Fahrenheit |
| ft | Feet/foot |
| ft bgs | Feet below ground surface |
| FWENC | Foster Wheeler Environmental Corporation |
| g/$cm^3$ | Grams per cubic centimeter |
| g/mole | Grams per mole |
| GRO | Gasoline Range Organics |
| H | Henry's law constant |
| HAFB | Holloman Air Force Base |
| HQ | Hazard Quotient |
| IDW | Investigation Derived Waste |
| J | Data Qualifier (denotes an estimated value) |
| MCL | Maximum Contaminant Level |
| MDL | Method detection limit |
| µg/L | Micrograms per liter |
| mg/L | Milligrams per liter |
| mg/kg | Milligrams per kilogram |
| NAD | North American Datum |
| NFA | No Further Action |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMWQCC | New Mexico Water Quality Control Commission |
| OVA | Organic Vapor Analyzer |
| ORO | Oil Range Organics |

| | |
|---|---|
| PCS | Petroleum contaminated soil |
| PID | Photoionization detector |
| POL | Petroleum, Oil, and Lubricants |
| PVC | Polyvinyl chloride |
| QAPP | Quality Assurance Project Plan |
| QA/QC | Quality Assurance/Quality Control |
| RA | Risk Assessment |
| RCRA | Resource Conservation and Recovery Act |
| RFI | RCRA Facility Investigation |
| SOP | Standard Operating Procedure |
| SSLs | Soil Screening Levels |
| SVOC | Semi-volatile organic compound |
| TCEQ | Texas Commission on Environmental Quality |
| TDS | Total dissolved solids |
| TPH | Total petroleum hydrocarbons |
| TVA | Toxic Vapor Analyzer |
| USACE | United States Army Corps of Engineers |
| USDA | Unites States Department of Agriculture |
| USEPA | United States Environmental Protection Agency |
| VOC | Volatile organic compound |
| WPOL | West POL Yard Fuel Spill Site |
| WRCC | Western Regional Climate Center |

# EXECUTIVE SUMMARY

The West Petroleum, Oil, and Lubricants (POL) Yard (Area of Concern [AOC] – 4) is comprised of four 50,000-gallon aboveground storage tanks (ASTs), that were used to store and distribute JP-8 jet fuel. The ASTs are set within a concrete bermed containment area. The West POL Yard is located near building 871 on the western side of the main base portion of Holloman Air Force Base (HAFB), New Mexico. In August 1999, the West POL Yard facility's leak-detection system indicated that JP-8 was leaking underground south of the ASTs. A subsequent pressure test performed on an 8-inch underground feed line confirmed the presence of a leak beneath the concrete pad of the fueling area.

In October and November 1999, Foster Wheeler Environmental Corporation (FWENC) conducted an investigation at the West POL Yard and 30 soil borings were drilled and subsurface soil samples were collected to delineate the extent of total petroleum hydrocarbons (TPH) in soil and the extent of free-product in groundwater. The recommendation of this 1999 study was to excavate the contaminated soil at the site and remove free-product from groundwater. Subsequent, excavation and removal activities were conducted by FWENC in January 2003, and approximately 1,300 cubic yards of soil was removed, stockpiled, and sampled. However, sidewall samples collected along the northern and southeastern edges of the excavation had TPH values exceeding cleanup standards. At this time the excavation was backfilled leaving the known petroleum contaminated soil (PCS) in place for future removal and the site was restored to the original condition.

Additional PCS from the West POL Yard was excavated by Bhate Environmental Associates in October 2006 and transported offsite by Rhino Environmental for treatment. Confirmation soil samples collected from the sidewalls of the excavation provide documentation of the removal of soil containing TPH, Volatile Organic Compounds (VOCs), or Semi-volatile Organic Compounds (SVOCs) in excess of the New Mexico Environment Department (NMED) soil screening levels. Analytical results from groundwater samples collected at the site do not contain VOCs, SVOCs, or TPH above reporting limits.

Petroleum contaminated soil excavated from the West POL Yard was transported offsite for treatment and disposal. Soil that was analyzed during the excavation process and determined to be acceptable for backfilling, along with imported clean material, was used to backfill the excavations. Based upon the sampling, laboratory analytical results, and documentation of excavation and disposal provided, No Further Action is recommended for the West POL Yard.

This report presents the data collected during the Accelerated Corrective Measures (ACM) investigation and describes the additional excavation and confirmation/stockpile soil sampling activities associated with this ACM project.

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# 1 INTRODUCTION

The U.S. Army Corps of Engineers (USACE), Omaha District, has retained Bhate Environmental Associates, Inc., (Bhate) to prepare this Accelerated Corrective Measures (ACM) Completion Report for the additional investigation and soil excavation activities at the West Petroleum, Oil, and Lubricants (POL) Yard Fuel Spill Site at Holloman Air Force Base (HAFB), New Mexico. Bhate prepared this document for HAFB under the Service Contract with the USACE (Contract No. DACA45-03-D0023, Task Order No. 006).

This report documents the Accelerated Corrective Measures (ACMs) performed to remove petroleum-contaminated soil (PCS) from the West POL Yard Fuel Spill Site. The West POL Yard is also known as Area of Concern (AOC)-4 in Appendix 4-A of the HAFB Resource Conservation and Recovery Act (RCRA) *Hazardous Waste Facility Permit No. NM6572124422* issued by the New Mexico Environment Department (NMED) on February 24, 2004.

## 1.1 Objectives

The objective of the ACM at the West POL Yard Fuel Spill Site was to assess and delineate the potential petroleum contamination of the groundwater underneath the site, and to excavate and dispose of remaining PCS to a point where there is an acceptable risk due to exposure at the site. In addition the *Groundwater Monitoring Work Plan, West POL Yard, Holloman Air Force Base, New Mexico* (Bhate, 2006) addressed the specifics of the characterization of groundwater at the site. The primary objective of the West POL Groundwater Monitoring Work Plan is to collect sufficient groundwater data to support a site specific risk assessment evaluating soil and groundwater exposure pathways relative to potential vapor impacts. The West POL Groundwater Monitoring Work Plan summarized the following tasks to accomplish this objective:

- Delineate the nature and extent of groundwater petroleum contamination at the West POL Yard site and provide the basis to submit the West POL Yard for no further action (NFA).
- Install one monitoring well upgradient of the possible source area to establish the nature and extent of upgradient contamination, and collect geotechnical data to support a site specific risk assessment.
- Install one monitoring well in the known contamination zone located adjacent to the southwest end of the retaining wall. The intent of this well is to provide information on groundwater contamination in and around the probable source area.
- Install two monitoring wells located downgradient of the probable source area to define the boundaries of the potential contamination plume. The wells will be situated so as to provide the best possible data on the potential plume.

This document describes the excavation and investigation activities of the ACM at the West POL Yard Fuel Spill Site (AOC-4). Also, the report summarizes the previously known subsurface conditions, the extent of PCS, and impacts to groundwater. During this process, required data were collected to support the closure of the site based on guidance from the NMED. The ultimate objective is to achieve NFA approval for site closure from NMED. The conclusion of the document requests that NMED issue a NFA for the West POL Yard Fuel Spill Site (AOC-4) based upon Criterion #5 (Appendix 4-B HAFB Hazardous Waste Facility Permit No. NM6572124422), (NMED, 2004) which states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

This criterion was accomplished by removing additional PCS present at the site which had exceeded the NMED soil screening levels (SSLs), and performing a site specific risk assessment.

## 1.2 Technical Approach

Investigation activities were conducted in accordance with the *Groundwater Monitoring Work Plan, West POL Yard, Holloman Air Force Base, New Mexico* (Bhate, 2006). The excavation activities were conducted in accordance with the *Revised Final Letter Work Plan for Petroleum Contaminated Soil Excavation at SS-17, FT-31 and West POL Yard* (FWENC, 2003a) which included the work plan, quality assurance project plan, field sampling and analysis plan, and contractor quality control plan; and the *Basewide Quality Assurance Project Plan* (Bhate, 2003).

## 1.3 Scope of Work

Work conducted under this ACM investigation was conducted in a phased approach. The first phase involved excavating as much additional PCS as possible up to the southern edge of the secondary containment tank berm. Details regarding the first phase of the ACM are included in Section 8 of this report. The second phase involved the installation and sampling of four monitoring wells at the site to support a site specific risk-based evaluation of the site due to the fact that removal of all impacted soil was not possible without the complete removal of the storage tanks.

Additional sampling activities at the West POL Yard were designed to support the completion of a site specific risk assessment, which will assist in reaching closure of the site. The following summary of the additional investigation performed under this ACM is detailed in the *Groundwater Monitoring Work Plan, West POL Yard, Holloman Air Force Base, New Mexico* (Bhate, 2006) and included:

- Review existing information about the site;
- Conduct a site and environs reconnaissance;
- Identify potential receptors; and
- Evaluate all information collected.

For this site, additional soil and groundwater sampling was required to meet the project objectives. To meet the ACM objectives, the following activities were performed by Bhate in April 2007.

- One up-gradient monitoring well (WPOL-MW01), two down-gradient monitoring wells (WPOL-MW02 and WPOL-MW04), and one monitoring well within the known contaminated area (WPOL-MW03) were installed to define groundwater conditions at the site;

- Two soil samples were collected (WPOL-DP01 and WPOL-DP04), and submitted for geotechnical analysis, to provide background geotechnical data of the site, in support of the site specific risk based assessment;

- A round of groundwater samples were collected from the four new monitoring wells (WPOL-MW01 through WPOL-MW04), and analyzed for the following parameters:
    - VOCs using Environmental Protection Agency (EPA) Method 8260B,
    - SVOCs using EPA Method 8270C,
    - TPH by EPA Method 8015, and
    - Total Dissolved Solids (TDS) by EPA Method 160.1.

## 1.4 Document Organization

This Accelerated Corrective Measures Completion Report has been modeled after the format suggested in the RCRA Facility Investigation (RFI) Report Requirements found in the HAFB RCRA Permit NM6572124422 (Appendix 4-B of the Permit). The document contains the following 10 sections:

- Section 1 – Introduction
- Section 2 – Site Background
- Section 3 – Environmental Setting
- Section 4 – Source Characterization
- Section 5 – Field Activities
- Section 6 – Laboratory Analysis and Data Validation Summary
- Section 7 – Nature and Extent of Contamination
- Section 8 – ACM Excavation and Sampling Analytical Results
- Section 9 – Conclusions and Recommendations
- Section 10 – References

The tables and figures referenced throughout this ACM Report are included following the text (after Section 10).

This report also includes the following appendices:

- Appendix A – Historical Data from Previous Investigations (Lab data on enclosed CD)
- Appendix B – Soil Boring Logs and Monitoring Well Construction Diagrams
- Appendix C – Field Sampling Documentation

- Appendix D – Analytical Data Packages (ACM Additional Investigation and Excavation Confirmation/Stockpile Soil Sampling) (on enclosed CD)
- Appendix E – Data Validation Reports (ACM Additional)
- Appendix F – Waste Manifests (Rhino Environmental Services)

# 2 SITE BACKGROUND

## 2.1 HAFB Site Description

HAFB is located in south central New Mexico, in the northwest central part of Otero County, approximately 75 miles north-north-east of El Paso, Texas (see Figure 2-1 of this report). HAFB has a population of 6,000 and occupies about 50,000 acres in the northeast quarter of Section 1, Township 17 South, Range 8 East. The White Sands Missile Range testing facilities occupy additional land extending northward from the Base. Private and public owned lands border the remainder of HAFB. The major highway servicing HAFB is Highway 70, which runs southwest from the town of Alamogordo and separates HAFB from publicly owned lands to the south. Alamogordo is the county seat for Otero County, has a population of approximately 35,000 and is located approximately 7 miles east of the base. The economy of Alamogordo depends largely upon HAFB and other military installations in the area.

HAFB was first established in 1942 as Alamogordo Army Air Field (AAF). From 1942 through 1945, Alamogordo AAF served as the training grounds for over 20 different flight groups, flying primarily B-17s, B-24s, and B-29s. After World War II, most operations had ceased at the base. In 1947, Air Material Command announced the air field would be its primary site for the testing and development of un-manned aircraft, guided missiles, and other research programs. On January 13, 1948, the Alamogordo installation was renamed Holloman Air Force Base, in honor of the late Col. George V. Holloman; a pioneer in guided missile research. The facility mission remained largely unchanged until 1971, although the facility identification changed several times during the 20-year span: Air Force Missile Test Center (1951-1952), Holloman Air Development Center (1952-1957), and Air Force Missile Development Center (1957-1971). The Tactical Air Command operated the facility form 1972 to 1992 and housed the 49$^{th}$ Tactical Fighter Wing, 479$^{th}$ Tactical Training Wing, 833$^{rd}$ Air Division, and 4449$^{th}$ Mobile Support Squadron. In 1992, Holloman AFB was realigned under the Air Combat Command (ACC) and also serves as the training center for the German Air Force's Tactical Training Center.

## 2.2 West POL Yard Fuel Spill Site Description

The West POL Yard Fuel Spill Site is listed on the permit as AOC-4. The site is located on the southwest portion of HAFB on the western portion of the Main Base Area (Figure 2-2). The West POL Yard, located adjacent to Building 871, lies between the F-117 hangars to the west and the HAFB runways to the east. The site consists of four 50,000-gallon aboveground storage tanks (ASTs) housed within a secondary containment concrete berm, and aboveground and underground product transmission lines. The facility was used to store and distribute JP-8 jet fuel to tanker trucks (FWENC, 2003b).

In August 1999, the West POL Yard facility's leak-detection system indicated that JP-8 was leaking underground south of the ASTs. A subsequent pressure test performed on an 8-inch underground feed line confirmed the presence of a leak beneath the concrete pad of the fueling area. As a result, the fueling pad was shut down by draining fuel lines and closing valves.

## 2.3 Historical Data Review

This section presents an overview of the previous investigations and excavation conducted at the West POL Yard prior to this ACM. The chronology and findings of the previous investigations, excavation, and confirmation sampling are presented below. Most of the following information was obtained from the *Closure Report for the Excavations at FT-31- South Area and the West POL Yard, Holloman, AFB, NM* (FWENC, 2003b).

### 2.3.1 August 1999 Test Pit Investigation

Upon shutting down the fueling pad in August 1999, two test pits were excavated by Base Environmental Management personnel to a depth of approximately 10 feet below ground surface (ft bgs). Five soil samples were collected from inside the test pits and analyzed for TPH. Soil sample TPH results for the two test pits ranged from 250 milligrams per kilogram (mg/kg) to 11,440 mg/kg. Free product was observed on the groundwater surface inside the excavation on the east side of the concrete driveway.

### 2.3.2 November 1999 Subsurface Soil Investigation

In October and November 1999, FWENC conducted an investigation at the West POL Yard and 30 soil borings were drilled and subsurface soil samples were collected to delineate the extent of TPH in soil and the extent of free product in groundwater. During sampling in October, older residual contamination was discovered as dark gray stained soil. Analysis of the stained soil indicated that the petroleum was JP-4 and that the contamination was older than previously reported. Additional drilling and sampling took place at the site to delineate the extent of all TPH contamination (FWENC, 2000). The recommendation of the 1999 study was to excavate the contaminated soil at the site and remove free product from groundwater.

### 2.3.3 January 2003 Excavation

Excavation and removal activities were conducted by FWENC in January 2003. The original scope required the excavation of approximately 500 cubic yards of soil for offsite disposal, but additional excavation was required because unexpected contamination was discovered in the area of the concrete driveway. Initially, a 20-foot (ft) by 40-ft portion of the concrete driveway was removed to allow for excavation of known PCS discovered during the 1999 investigation. An additional portion of the concrete driveway (1,094 square feet) was removed during field activities to allow excavation to continue-on in the western portion of the jet fuel spill site. This increased the total amount of concrete removed during this task to 1,894 square feet.

Approximately 1,300 cubic yards of soil was removed, stockpiled, and sampled. The boundary of the entire excavation conducted in 2003 is shown on Figure 2-3. It was determined through laboratory analysis that approximately 1,200 cubic yards (1,430 tons) of soil contained TPH at concentrations greater than the 940 mg/kg action level and would need to be disposed as New Mexico Special Waste by Rhino Environmental. These disposal activities were completed by Bhate at a later date, and are discussed in Section 8.3 of this ACM report.

#### 2.3.3.1 Soil Stockpile Sampling Results

Eight samples were collected from stockpiled soil suspected of containing PCS. The stockpile samples (WPOL-SS01 through WPOL-SS08) were collected at a frequency of approximately 1 sample for every 100 cubic yards of stockpiled soil. All the soil stockpile samples collected were analyzed for TPH (gasoline range organics [GRO], diesel range organics [DRO], and oil range organics [ORO]) [Method 8015]), VOCs (Method 8260B) and SVOCs (Method 8270C).

Low concentrations of 11 VOCs and SVOCs were detected in the eight stockpile samples collected. None of these detected VOCs or SVOCs exceeded their respective NMED SSLs. However, with the exception of stockpile sample WPOL-SS08, combined TPH concentrations did exceed the NMED screening guidelines (NMED, 2006b) for kerosene and jet fuel (940 mg/kg), in each of the stockpile samples collected. A summary table of the analytical data for the stockpile soil samples collected in 2003 is presented in Appendix A-1 and the actual laboratory data packages are on the enclosed CD.

Due to the results of the stockpile samples only 100 cubic yards of soil that was removed from the excavation was returned as backfill. The remainder was stockpiled for future disposal as New Mexico Special Waste by Rhino Environmental.

#### 2.3.3.2 Excavation Confirmation Sampling Results

Confirmation soil samples were collected from each of the sidewalls of the open excavation (Figure 2-3). No samples were collected from the bottom of the excavation because the excavation extended below the water table. A total of 19 confirmation samples (WPOL-EX01 through WPOL-EX-19) were collected from the sidewalls along the perimeter of the excavation. As outlined in the *Closure Report for the Excavations at FT-31- South Area and the West POL Yard* (FWENC, 2003b), all excavation confirmation samples were analyzed by an offsite laboratory for the following:

- TPH as GRO, DRO, ORO – EPA Method Modified 8015
- VOCs – EPA Method 8260B
- SVOCs – EPA Method 8270C

TPH-DRO was detected above the current NMED SSLs (NMED, 2006b) for kerosene and jet fuel (940 mg/kg) in WPOL-EX01, -EX02, -EX03, -EX18, and -EX19. These samples were collected along the north and northeast wall of the excavation immediately adjacent to the south/southwest side of the concrete containment wall (Figure 2-3). Additionally, TPH-DRO was detected above the TPH SSLs in the excavation sidewall sample WPOL-EX07 at the southeast portion of the excavation. Sidewall samples (WPOL-EX04, -EX05, -EX06, -EX08, -EX09a, -EX09b, -EX12a, and -EX13 through -EX17) collected around the rest of the perimeter of the excavation had TPH concentrations below the NMED screening guidelines. A summary table of the analytical data for the excavation confirmation samples collected in 2003 is presented in Appendix A-1 and the actual laboratory data packages are on the enclosed CD.

#### 2.3.3.3 Site Restoration

The following information comes from the *Closure Report for FT-31 and the West POL Yard* (FWENC, 2003b). Clean fill, consisting of rock and soil, was imported as backfill for the revised limits of excavation prior to replacement of the removed reinforced concrete driveway area. The excavation was backfilled, leaving remaining contaminated soil in place and the remaining areas of suspected contaminated soil were surveyed (using a global position system unit) in order to facilitate future removal and disposal by Bhate (see Section 8 of this ACM report). Approximately 100 cubic yards (cy) of clean soil taken from the excavation was used to backfill the portion of the site outside of the limits of the concrete driveway. The final site restoration activity at the West POL Yard consisted of replacing landscaping rock where required and replacing a 1,894 square ft section of the concrete driveway. In addition, the fence and light pole that were removed from within the excavation area were reinstalled.

### 2.3.4 October 2005 Soil Boring Event

In October 2005, Bhate conducted a soil sampling event to characterize the extent of potential PCS beneath the southern half of the secondary containment structure. During this sampling event, 21 shallow boreholes (SB-01 through SB-21) were installed through the concrete floor of the secondary containment area (Figure 2-3). The boreholes were located adjacent to the two southern aboveground tanks and the southern containment wall, and were completed with a hand auger, since access was not available for a drill rig. Soils were screened with a Foxboro Toxic Vapor Analyzer (TVA) 1000 Organic Vapor Analyzer (OVA), using soil-headspace screening techniques to aid in the selection of sample intervals. At each borehole, soil samples were collected for chemical analysis at 2 to 3 discrete intervals at depths ranging from 4 inches to 104 inches bgs. All soil samples collected in 2005 were analyzed by an offsite laboratory for TPH (GRO, DRO, and ORO [Method 8015]), VOCs (Method 8260B), and SVOCs (Method 8270C).

Low concentrations of 15 VOCs and 5 SVOCs were detected above the Method Detection Limit (MDL), in the 71 soil samples collected at the West POL Yard. None of the detected VOC or SVOC analytes were detected above their respective SSLs (NMED, 2006a). TPH was analyzed for GRO ($C_6 - C_{10}$), DRO ($C_{10} - C_{22}$), and ORO ($>C_{22} - C_{36}$). Concentrations of TPH-GRO and TPH-DRO were detected in several of the samples collected. TPH-GRO ranged from 3.61 J mg/kg to 319 mg/kg and TPH-DRO ranged from 7.50 J to 528 mg/kg. TPH-ORO was detected in only three samples with the maximum concentration (15.6 mg/kg) detected in the duplicate sample collected at 4 to 11 inches in borehole WPOL-SB17. Furthermore, the maximum combined TPH concentration was 847 mg/kg (319 mg/kg GRO and 528 mg/kg DRO combined) detected in the sample collected from 52 to 56 inches bgs at location WPOL-SB07. However, this combined TPH concentration is below the NMED screening guidelines (NMED, 2006b) for kerosene and jet fuel (940 mg/kg). A summary table of the analytical data for the soil samples collected in 2005 is presented in Appendix A-2 of this ACM report and the laboratory data packages are on the enclosed CD.

# 3 ENVIRONMENTAL SETTING

The following subsections present the environmental setting. This information was obtained primarily from the *Draft Final Remedial Investigation (RI) Report, Investigation, Study and Recommendation for 29 Waste Sites, Holloman Air Force Base, NM* (Radian, 1992), unless cited otherwise.

## 3.1 Physiography and Topography

HAFB is located within the Sacramento Mountains Physiographic Province. HAFB is approximately 59,600 acres in area, and is located at a mean elevation of 4,093 feet above mean sea level (amsl). The region is characterized by high tablelands with rolling summit plains; cuesta-formed mountains dipping eastward and of west-facing escarpments with the wide bracketed basin forming the basin and range complex. The Base is located within the Tularosa Basin, which is part of a 170 mile long structural depression. The basin is bounded on the south by a low topographic divide near the Texas state line; on the west (about 30 miles) by the uplifted Organ, San Andes and Oscura Mountains; on the north by Chupadera Mesa; and on the east (about 10 miles) by the uplifted Jicarilla and Sacramento Mountains. The surrounding mountains rise abruptly to altitudes of 7,000 to 12,000 feet amsl. At its widest, the basin is about 60 miles east to west and stretches approximately 150 miles north to south.

The Tularosa Basin is a closed basin that contains all of the surface flow within its boundaries. Surface runoff from the surrounding mountains has deposited alluvial fans on the interior of the plain. Around the base, the ground surface is undulating comprised of alluvial fan deposits, eolian dunes, and flat bottomed playas (pan shaped depressions carved by wind erosion). To the west of the Base lie the gypsum sand dune fields of the White Sands National Monument. A topographic map of the base is provided in Figure 3-1 of this report.

## 3.2 Surface Water and Hydrology

Within the boundaries of the Base, surface water runoff is controlled by several arroyos that trend to the southwest (see Figure 3-2 of this report). The nearest inflow of surface waters to the Base comes from the Lost River, located in the north-central region of the Base. HAFB is dissected by several other southwest trending arroyos that control the surface drainage. Hay Draw arroyo is located in the far north. Malone and Rita's Draw, which drain into the Lost River, and Dillard Draw arroyos are located along the eastern perimeter of the Base. Approximately 10,000 years ago, indications are of a much wetter climate. The present day Lake Otero encompassed a much larger area, possibly upwards of several hundred square miles. Its remains are the Alkali Flat and Lake Lucero. Lake Lucero is a temporary feature of merely a few inches in depth during the rainy season.

Ancient lakes and streams deposited water bearing deposits over the older bedrock basement material. Fractures, cracks, and fissures in the Permian and Pennsylvanian bedrock yield small quantities of relatively good quality water in the deeper peripheral. Potable water is only found from a handful of wells near the edges of the basin with more saline water towards the center.

Two of the principal sources of potable water are a long narrow north-south trending area east of Tularosa and Alamogordo and in the far southwestern part of the basin. Alamogordo's water, as well as the Base's, is supplied from Lake Bonito (which is in the Pecos River Basin).

## 3.3 Regional Geology

The Tularosa Basin is the easternmost extension of the Basin and Range Providence of the western United States. The Basin and Range was created by Cenozoic extensional (normal) faulting of Precambrian- through Tertiary-age sedimentary and igneous rocks. The basin is a graben, or downthrown block, bounded by the upthrown fault blocks of the San Andres and Sacramento Mountains.

During the Permian period of the Paleozoic era (approximately 270 million years ago), southern New Mexico was covered by a shallow sea. Limestone and sandstone were deposited, forming thick sedimentary units. Toward the end of the Mesozoic era (approximately 70 million years ago), the major mountain building activities that formed the Rocky Mountains took place. During these events, southern New Mexico emerged from the ocean as the earth's crust upwarped gently in this region. During the Cenozoic era (beginning approximately 70 million years ago), basin and rang formation was initiated in what is now the southwestern United States. Approximately 10 million years ago, Cenozoic faulting formed the graben structure known as the Tularosa Basin. During this process, arched portions of rock collapsed between large-scale, north-south trending faults. The Tularosa Basin is a central downthrown area, bounded on the east and west by fault block mountains. Bedded Permian strata can be seen along the faces of the Sacramento and San Andres Mountains. Permian limestones also occur west of HAFB in a low bedrock outcrop near Hurtz Spring. In the millions of years following, rainfall, snowmelt, and wind eroded the mountain sediments depositing them in the valley (i.e. Tularosa Basin). Water carrying eroded limestone, dolomite, gravel, and other matter continue to flow into the basin. A generalized cross-section of the Tularosa Basin is shown in Figure 3-3 of this report.

As the Tularosa Basin is a bolson, which is a basin with no surface drainage outlet, sediments carried by surface water into a closed basin are bolson deposits. The overlying alluvium generally consists of unconsolidated gravels, sands, and clays. The bolson sediments within the Tularosa Basin are derived from the adjacent ranges as erosional deposits of limestone, dolomite, and gypsum. Coarser material is deposited at the base of the mountains while finer material is carrier to the basin's interior. The bolson fill deposits thin out from Alamogordo to less than 100 feet near Hurtz Spring. Bolson fill deposits are 8,000 feet thick or more in the central portion of the Tularosa Basin.

Near-surface geologic conditions at HAFB have been established during this and numerous other Environmental Restoration Program (ERP) investigations. The near-surface bolsom deposits at HAFB consist of sediments that are alluvial, eolian, and lacustrine in origin. The alluvial fan deposits are laterally discontinuous units of interbedded sand, silt, and clay while the eolian deposits consist primarily of gypsum sands. The eolian and alluvial deposits are usually indistinguishable because the wind simultaneously reworks alluvial fan sediments and deposits gypsum sands resulting in an intermingling of the two sediment types. The playa, or lacustrine

deposits, consist of medium to high plastic clay containing gypsum crystals and are contiguous with the alluvial fan and eolian deposits throughout HAFB. There has been the identification of stiff caliche layers, varying in thickness, at different areas of the Base. A generalized near surface cross-section for HAFB is shown in Figure 3-4 of this report.

## 3.4 Soils

The United States Department of Agriculture (USDA) Soil Conservation Service has identified two soil associations in the vicinity of HAFB; the Holloman-Gypsum Land-Yesum complex, and the Mead silty clay loam. The permeability of these horizons ranges from $4x10^{-4}$ to $1\ x10^{-3}$ centimeters per second (cm/sec). The distribution of soils in the vicinity of HAFB is depicted on Figure 3-5 of this report (USDA, 1981).

The Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes soil consists of large areas of shallow and deep, well drained soils and areas of exposed gypsum. The Holloman soil makes up about 35 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 13 inches of the substratum is pink very fine sandy loam that is very high in gypsum. Below that, the substratum is white gypsum to a depth of more than 60 inches. This soil is calcareous and mildly alkaline to moderately alkaline throughout. Permeability is moderate, and available water capacity is very low.

Gypsum land makes up about 30 percent of the Holloman-Gypsum land-Yesum complex, 0 to 5 percent slopes. Typically, less than 1 inch of very fine sandy loam overlies soft to hard, white gypsum. The deep Yesum very fine sandy loam makes up about 20 percent of the complex. Typically, the surface layer is light brown very fine sandy loam about 3 inches thick. The upper 9 inches of the substratum is light brown fine sandy loam that is very high in gypsum. Below that, the substratum is pink very fine sandy loam to a depth of more than 60 inches. The soil is calcareous throughout and is mildly alkaline. Permeability is moderate, and available water capacity is moderate. Many fine gypsum crystals are found throughout the profile.

The soil type located across the main drainage area for the installation is Mead silty clay loam, 0 to 1 percent slopes. This deep, poorly drained, nearly level soil is on outer fringes of alluvial fans. This soil formed in fine textured alluvium over lacustrine lake sediment. It is very high in salt content because of periodic flooding and poor drainage. Slopes are smooth and concave. Typically, the surface layer is reddish brown silty clay loam and clay loam about 5 inches thick. The substratum, to a depth of 48 inches, is light reddish brown clay that has a high content of salts. Below that, the substratum is lacustrine material of variable texture and color to a depth of more than 60 inches. Included with this soil are areas of Holloman soils and Gypsum land along the margins of the unit of steep, short gully sides and knolls. These inclusions make up about 15 percent of the map unit for this soil type. Individual areas are generally smaller than 10 acres. This soil is moderately calcareous throughout and is moderately to strongly alkaline. It has a layer of salt that is more soluble than gypsum. Permeability is very slow, and available water capacity is low.

## 3.5 West POL Site Geology

The West POL Yard site geology is based upon observations made during excavation activities at the site and the four shallow soil borings completed during this ACM investigation in April 2007. The West POL Yard's geology is similar to the soils found around the majority of HAFB, and are typical of the alluvial, eolian, and playa deposits of the Tularosa Basin. Soils underlying the West POL Yard are primarily silts and silty sands intermixed with some clay. The uppermost soils are very fine grained silty sands that extend down 3 to 4 feet to the capillary fringe. Below this unit are saturated silts with some clay lenses intermixed. At depths of approximately 12 ft bgs, dense caliche deposits were encountered across the site. The soil boring logs and well construction diagrams for this investigation are included in Appendix B.

## 3.6 Regional Hydrogeology

Groundwater occurs as an unconfined aquifer in the unconsolidated deposits of the central basin, with the primary source of recharge as rainfall percolation and minor amounts of stream run-off along the western edge of the Sacramento Mountains. Surface water/rainfall migrates downward into the alluvial sediments at the edge of the shallow aquifer near the ranges, and flows downgradient through progressively finer-grained sediments towards the central basin. Because the Tularosa Basin is a closed system, water that enters the area only leaves either through evaporation or percolation. This elevated amount of percolation results in a fairly high water table. Beneath HAFB, groundwater ranges from 5 to 50 feet bgs. Flow for the Base is generally towards the southwest with localized influences from the variations in the topography of the Base. In the northern and western portions of the Base, groundwater flows more to the west toward the Ritas Draw, Malone Draw, and Lost River drainages. Groundwater flow is affected by local topography in areas immediately adjacent to arroyos, where groundwater flows directly toward the drainages regardless of the regional flow pattern.

Figure 3-6 of this report shows the basewide groundwater flow direction obtained from water level measurements collected during the 2002 Long Term Monitoring groundwater sampling event. Groundwater quality in the Tularosa Basin is of potable quality at the recharge areas in close proximity to the Sacramento Mountains and becomes increasingly mineralized toward the central portion of the basin and discharge areas (Radian, 1992). The majority (over 70 %) of the ERP Sites/Solid Waste Management Units located across HAFB, have groundwater monitoring wells containing water with an average TDS concentration greater than 10,000 milligrams per liter (mg/L). This TDS data supports the hypothesis that TDS concentrations below 10,000 mg/L at HAFB are caused by dilution of natural groundwater from leaking water lines and surface irrigation from the domestic water supply. TDS concentrations greater than 10,000 mg/L exceed the New Mexico Water Quality Control Commission (NMWQCC) limit as potable water and thus, the groundwater beneath HAFB has been designated as unfit for human consumption. Additionally, based on the EPA document, *Final Draft Guidelines for Groundwater Classification Under EPA Groundwater Protection Strategy* (EPA, 1986), the groundwater can be classified as Class III B. Class III B groundwater is characterized by having a TDS concentration greater than 10,000 mg/L, and a low degree of interconnection to adjacent surface waters or groundwater of a higher class. Because the Tularosa is a closed basin, its groundwater

does not discharge or connect to any adjacent aquifer. Adjacent surface waters include groundwater surfacing in Lake Holloman. TDS in Lake Holloman ranges from a winter low of 12,400 mg/L to a summer high of 17,000 mg/L (Cole, et al., 1981); therefore, groundwater at Holloman AFB is not interconnected with surface water of a higher class.

## 3.7 West POL Site Hydrogeology

The four groundwater monitoring wells at the West POL Yard are screened between 0.8 and 12.2 feet bgs. The well completion details are included in the monitoring well construction diagrams found in Appendix B. Groundwater occurs in a shallow unconfined aquifer at depths observed in July 2007 ranging from 5.79 to 6.70 feet below the top of polyvinyl chloride (PVC) casing, and groundwater elevations ranged from 4,052.59 to 4,052.77 ft amsl across the site. The depth to groundwater elevations across the site indicate that groundwater flows to the south-southwest (Figure 3-7) and the hydraulic gradient is approximately $6.9 \times 10^{-4}$. Tables 3-1 and 3-2 present the groundwater elevation data and monitoring well construction details respectively.

## 3.8 Climate

As a whole, New Mexico has a mild, arid to semi-arid continental climate characterized by light precipitation totals, abundant sunshine, relatively low humidity, and relatively large annual and diurnal temperature range (Western Regional Climate Center [WRCC], 2003). The climate of the Central Closed Basins varies with elevation. The Base is found in the low areas and is characterized by warm temperatures and dry air. Daytime temperatures often exceed 100 degrees Fahrenheit (°F) in the summer months and are in the middle 50s in the winter. A preponderance of clear skies and relatively low humidity permits rapid night time cooling resulting in average diurnal temperature ranges of 25 to 35°F. Potential evapotranspiration, at 67 inches per year, significantly exceeds annual precipitation, usually less than 10 inches. The very low rainfall amounts resulting in the arid conditions, which with the topographically induced wind patterns combining with the sparse vegetation, tend to cause localized "dust devils". The annual rainfall for Alamogordo is 12 inches per year[1]. Much of the precipitation falls during the mid-summer monsoonal period (July and August) as brief, yet frequent, intense thunderstorms culminating to 30 – 40% of the annual total rainfall.

## 3.9 Current and Future Land Use

The land surrounding HAFB consists of residential areas to the east and northeast (City of Alamogordo), rangeland to the south, the White Sands National Monument to the west, and areas where military activities are conducted to the north. The desert terrain of the area immediately surrounding HAFB has limited development, and there are no agricultural operations, residential communities, or large industrial operations located adjacent to the Base. HAFB is an active military installation and is expected to remain active for the foreseeable future. No transfer of

[1] http://countrystudies.us/united-states/weather/new-mexico/

military property to the public is anticipated, and public access to the Base is restricted.

Residential development on the Base is limited by environmental and operational constraints imposed by the 100-year floodplain, historic sites, and areas identified under the Installation Restoration Program. Safety and noise zones also limit residential development on Holloman AFB. Future plans for residential development on the Base include renovation of existing structures, replacement of inefficient buildings, and expansion into open areas in the southeast corner of the Base (HAFB, 2000). Future land use is not expected to differ significantly from current land use practices.

## 3.10 Current and Future Water Use

At present, the primary fresh water resource for the City of Alamogordo and HAFB is Lake Bonita, 60 miles northeast of the Tularosa Basin. Currently, there are no potable supplies of groundwater or surface water located on the Base. HAFB obtains its water supply from the City of Alamogordo and the HAFB wells in the Boles, San Andres, and Douglas well fields at the base of the Sacramento Mountains. No water supply wells are located on or near the Base because of poor groundwater quality (TDS greater than 10,000 mg/L). The nearest production well downgradient from HAFB is a livestock well located 11 miles southwest of HAFB. There are no potable or irrigation wells near to or immediately downgradient of the Base. Within the boundaries of the West POL Yard, storm water run-off is controlled by the minimal topographic relief as per the existing grade and landscaping. Appurtenances can be found along the perimeter of the site for collection into the Base storm water drainage system.

# 4 SOURCE CHARACTERIZATION

Based on the previous investigations described in Section 2.3, soil and groundwater analytical data have been collected at the West POL Yard since 1999. Source area characterization for the West POL Fuel Leak has been described in the following historical documents:

- Foster Wheeler Environmental Corporation. August 2000. *Onsite Investigation Report for Petroleum-Contaminated Soil at the West POL Yard, Holloman Air Force Base, New Mexico.*

- Foster Wheeler Environmental Corporation. June 2003b. *Closure Report for the Excavations at FT-31- South Area and the West POL Yard, Holloman Air Force Base, New Mexico.*

The purpose of additional ACM source area characterization was to collect soil and groundwater data to fill data gaps in support of a site specific risk assessment and to remove additional PCS through excavation. The results of the additional subsurface soil and groundwater characterization for the West POL Yard are presented in Section 7 (Nature and Extent of Contamination) of this report. In order to determine the effectiveness of the ACM source removal, confirmation samples were collected from the sidewalls of the excavation. The results of the confirmation sampling events are presented in Section 8 (ACM Excavation and Sampling Analytical Results) of this report.

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# 5 FIELD ACTIVITIES

The objectives of the additional investigation at the West POL Yard were to collected additional soil data and evaluate the current groundwater conditions of the site to support a site specific risk assessment. To meet these objectives, the following field activities at the site were preformed during the ACM investigation in April 2007:

- Four shallow soil borings (WPOL-DP01 through WPOL-DP04) were drilled and sampled to support the site specific risk based evaluation.
- The four soil borings were converted to monitoring wells (WPOL-MW01 through WPOL-MW04), and groundwater samples were collected from each well and analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), and TDS.
- Additionally, two geotechnical soil samples were collected from soil borings WPOL-DP01 and WPOL-DP04, to provide geotechnical data of non-impacted soils at the site.

Prior to beginning field work a Base Dig Permit (AF Fm 103) with a utility clearance, was submitted and approved by the proper authority. All completed field and waste handling activities conducted at the West POL Yard were performed in accordance with HAFB Standard Operating Procedures (SOPs), provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003), outlined in the *Groundwater Monitoring Work Plan, West POL Yard, Holloman Air Force Base, New Mexico* (Bhate, 2006).

## 5.1 Subsurface Soil Sampling

In April 2007, four shallow soil borings (WPOL-DP01 through WPOL-DP04) were advanced at the West POL Yard (Figure 5-1) in accordance with HAFB SOPs provided in the *Basewide Quality Assurance Project Plan* (Bhate, 2003). The soil borings were advanced using an AMS® Incorporated, truck mounted 9600 direct push technology (DPT) drill rig, and a five foot Geoprobe® Dual Tube sampling system. These soil borings were sampled continuously to depths of approximately 12 ft bgs. In order to evaluate the groundwater conditions underneath the site, each of the borings was converted into a groundwater monitoring well.

Soils were visually classified in the field by a geologist according to the Unified Soil Classification System. Soils were screened with a Foxboro TVA 1000 Organic Vapor Analyzer (OVA). Although no soil samples were collected for chemical analysis, two soil samples were collected for geotechnical analysis in soil borings WPOL-DP01 and WPOL-DP04. These two undisturbed samples were collected from 3 to 5 ft bgs, just above the water table in soil representative of the site. The samples were collected in a thin-walled soil sampler and analyzed by Accutest Laboratories in Orlando, Florida, for geotechnical properties (dry bulk density, specific gravity, moisture content, and fractional organic carbon content). The Soil Boring Logs and Monitoring Well Construction Diagrams for the West POL Yard can be found in Appendix B of this report.

## 5.2 Groundwater Sampling

In April 2007, groundwater samples were collected from the four new monitoring wells (WPOL-MW01 through WPOL-MW04) installed at the West POL Yard (Figure 5-1). Prior to sampling, the monitoring wells were developed, in accordance with Bhate SOP No. 10 (*Subsurface Water Investigation*), Section 3, Well Development, to remove sediment and facilitate communication between the well and the surrounding formation, ensuring a representative water sample. During development, a Horiba® U-22 (2-meter) water quality analyzer was used to collect water quality parameters. The monitoring wells were sampled using a peristaltic pump (pumping at an average rate of less that 1 liter per minute) and disposable polyethylene tubing. Prior to sampling, water levels were collected and the monitoring wells were purged, in accordance with Bhate SOP No. 10 (*Subsurface Water Investigation*), Section 4, Monitoring Well Sampling. The West POL Yard Monitoring Well Development Forms and Sample Collection Logs can be found in Appendix C of this report.

## 5.3 Surveying

Sample locations were surveyed in accordance with methods described in the *Basewide Quality Assurance Project Plan* (QAPP) (Bhate, 2003). The locations, referenced with horizontal coordinates, and top of casing elevations were obtained for each monitoring well. All elevations are referenced to the North American Datum (NAD) 1983. All horizontal coordinates are referenced to the State Plane Coordinate System, New Mexico Central. Elevations and coordinates are surveyed to the closest 0.001 foot. Table 3-1 summarizes the survey data (Appendix C) and the depth to groundwater measurements collected and groundwater elevations in April 2007.

## 5.4 Equipment Decontamination

All reusable equipment associated with soil sampling was decontaminated in accordance with the HAFB SOPs provided in the *Basewide QAPP* (Bhate, 2003).

## 5.5 Waste Handling

All investigation derived waste (IDW) produced during the investigation process was handled in accordance with the HAFB SOPs provided in the *Basewide QAPP* (Bhate, 2003).

# 6 LABORATORY ANALYSIS AND DATA VALIDATION SUMMARY

The analysis of groundwater samples collected during this investigation followed the proposed methodologies presented in the *Groundwater Monitoring Work Plan, West POL Yard, Holloman Air Force Base, New Mexico* (Bhate, 2006). All analytical procedures followed the EPA SW-846 protocol with the groundwater samples being analyzed for the following:

- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- TPH – GRO, TPH - DRO, and TPH – ORO by EPA Method 8015
- TDS by EPA Method 160.1

All of the laboratory data generated as part of this project was validated by the project chemist. Field Quality Assurance (QA)/ Quality Control (QC) samples, including trip blanks, equipment blank, matrix spikes, and matrix spike duplicates were collected to document field and laboratory QA/QC. The analytical data is provided in Appendix D of this report. The Data Validation Reports are provided in Appendix E. Accutest Laboratories in Orlando Florida performed the analysis of all samples collected.

Overall, only minor QC issues were identified during the data validation of the laboratory results and the laboratory took all necessary corrective actions. All of the data were determined to be usable with only minor qualifications. Information regarding the precision, accuracy, representativeness, and completeness is provided in the validation reports (Appendix E) with the following section providing a synopsis of each analyte group.

## 6.1 Volatile Organic Compounds

No QC deficiencies were qualified for volatile organic analysis.

## 6.2 Semi-volatile Organic Compounds

No QC deficiencies were qualified for semi-volatile organic analysis.

## 6.3 Total Petroleum Hydrocarbons

No QC deficiencies were qualified for total petroleum hydrocarbon analysis.

## 6.4 Total Dissolved Solids

No QC deficiencies were qualified for total dissolved solids analysis.

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# 7 NATURE AND EXTENT OF CONTAMINATION

This section presents the soil geotechnical and groundwater analytical results from the additional field activities completed at the West POL Yard by Bhate in April 2007. This section also presents the current nature and extent of contamination found in the groundwater during this investigation. The groundwater sampling locations from this investigation are shown on Figure 5-1.

The objectives of the additional soil geotechnical and groundwater sampling conducted during the ACM at the West POL Yard were to: 1) determine if any groundwater contamination exists at the site; 2) delineate the current horizontal extent of the potential groundwater contamination; and 3) collect the proper data meeting the data quality objectives to support closure of the site. The primary objective of this data collection effort was to facilitate a site specific risk-based evaluation at the site and to collect the proper data meeting the data quality objectives (DQOs) ultimately in support of the closure of the site based on guidance from the NMED. Soil geotechnical and groundwater analytical results collected during the additional investigation during this ACM are summarized in Tables 7-1 and 7-2, respectively. A duplicate groundwater sample was collected from well number WPOL-MW04.

## 7.1 Geotechnical Soil Analytical Results

The two subsurface soil samples collected from WPOL-DP01 and WPOL-DP04 were analyzed for geotechnical properties (dry bulk density, specific gravity, moisture content, and fractional organic carbon content). Due to the fact that the horizontal extent of soil contamination was already delineated, no subsurface soil samples were submitted for chemical analysis. Table 7-1 summarizes the geotechnical lab results.

## 7.2 Groundwater Analytical Results

The five groundwater samples (including one duplicate) collected from WPOL-MW01 through WPOL-MW04 were analyzed for VOCs, SVOCs, TPH (GRO, DRO, and ORO), and TDS. The analytical results are presented in Table 7-2 and the monitoring well locations with selected results are shown on Figure 7-1.

Low concentrations of eight VOCs were detected in two of the monitoring wells (WPOL-MW03 and WPOL-MW04) that were sampled in April 2007. The maximum concentrations of acetone (28.7 micrograms per liter [µg/L]), n-butylbenzene (1.6 µg/L), sec-butylbenzene (9.1 µg/L), isopropylbenzene (2.3 µg/L), and methyl ethyl ketone (9.0 µg/L) do not exceed any applicable NMWQCC groundwater standards or EPA Maximum Contaminant Levels (MCLs). In addition, low estimated concentrations of 3 other VOCs (tert-butylbenzene, naphthalene, and n-propylbenzene) were detected below the reporting limit and were qualified with a J. All other VOCs were not detected above their method detection limits.

One estimated concentration of dibenzofuran (1.1 J µg/L) was the only SVOC detected in the groundwater sample collected from WPOL-MW04 (downgradient well). This estimated

concentration was below the reporting limit and therefore qualified with a J. Dibenzofuran was not detected in any other wells and all other SVOCs were not detected in any of the wells.

The TPH fraction for DRO ($C_{10}$ – $C_{22}$) was detected in the groundwater samples collected at WPOL-MW03 (1.0 mg/L) and WPOL-MW04 (0.988 mg/L). ORO (>$C_{22}$ – $C_{36}$) was detected in all of the four wells and the duplicate sample with a maximum concentration of 0.634 mg/L (WPOL-MW04). The other TPH fraction (GRO [$C_6$ – $C_{10}$]) was not detected in the groundwater samples collected during the ACM investigation at the West POL Yard. The maximum combined TPH-DRO and ORO concentration (1.62 mg/L) of the four groundwater samples collected is below the NMED TPH screening guidelines for kerosene and jet fuel in potable groundwater (2.86 mg/L) (NMED, 2006b).

TDS concentrations ranged from 2,680 mg/L (WPOL-MW03) to 6,480 mg/L (WPOL-MW01) and exceeded the NMWQCC Human Health Standard (1,000 mg/L) (20.6.2 New Mexico Administrative Code [NMAC]) for a domestic water supply in each of the four wells sampled. Furthermore, the upgradient well (WPOL-MW01) which represents background for the site, had the highest concentration of 6,480 mg/L.

# 8 ACM EXCAVATION AND SAMPLING ANALYTICAL RESULTS

This section describes the PCS excavation activities that were conducted at the West POL Yard (AOC-4) by Bhate in October 2006. The initial excavation was conducted by FWENC, in January 2003 and was discussed in Section 2.3 of this report. The Removal Action associated with the ACM conducted at the West POL Yard was resumed in October 2006. This included two small excavations adjacent to the original conducted by FWENC. This section also presents the confirmation soil sampling conducted along the sidewalls of these two additional excavations along with the results of the stockpile sampling conducted during the 2006 Removal Action by Bhate.

To determine the effectiveness of the ACM Removal Action, confirmation soil samples were collected from the sidewalls of the excavation at a frequency of two samples per 18 linear feet of sidewall. One soil sample was collected from the stockpiled soil to determine the appropriate classification of the visually clean stockpiled soil. These soil samples were submitted to Severn Trent Laboratories in Denver, Colorado for off-site laboratory analysis.

Based on current direction from NMED, soil samples were not collected from the bottom of the excavations as the West POL Yard excavation was terminated below the water table (approximately 5 ft bgs). A summary table presenting the results of the confirmation and stockpile sampling is presented in Table 8-1, and excavation confirmation locations are shown on Figure 8-1. Excavation confirmation samples and stockpile samples were analyzed by the off-site laboratory for the following:

- VOCs by EPA Method 8260B
- SVOCs by EPA Method 8270C
- TPH-DRO, -GRO, and -ORO by EPA Method 8015

The results of the laboratory analyses were reviewed and compared to the current NMED SSLs (NMED, 2006a). TPH concentrations were compared to the current NMED TPH Screening Guidelines for kerosene and jet fuel (940 mg/kg) (NMED, 2006b). A summary of the excavation, confirmation, and stockpile soil sampling activities at the West POL Yard is presented in Sections 8.1.1, 8.1.2, and 8.1.3. Section 8.2 describes the site restoration activities and Section 8.3 describes the transportation and disposal of impacted/contaminated soil.

The additional excavation boundaries at the site are depicted in Figure 8-1. This figure also presents the locations of the confirmation soil samples that were collected from the excavation. The complete laboratory analytical results for the confirmation and stockpile soil sampling are included in Appendix D. Summary tables presenting the confirmation and stockpile soil data are presented in Table 8-1, with selected confirmation sample results displayed on Figure 8-2.

## 8.1 West POL Yard ACM Excavation

Bhate began removing additional soil from the West POL Yard in October 2006, and completed the confirmation sampling along the sidewalls of the two additional excavations in late October 2006. The approximate area of the final ACM excavations was 600 square feet with an average depth of 6 ft bgs. The combined calculated volume removed from these 2 excavations was approximately 180 cubic yards. Of this volume, approximately 20 cubic yards of soil were determined by visual inspection and photoionization detector (PID) screening to be clean and thus stockpiled for potential return to the pit. A sample of this stockpiled soil was collected for laboratory analysis to confirm the absence of PCS before being returned to the excavation. Approximately 160 cubic yards of PCS were excavated and transported offsite for disposal as New Mexico Special Waste by Rhino Environmental Services, Inc. (Rhino). Approximately 160 cubic yards of clean imported fill material was placed in the excavation at the completion of the sidewall confirmation sampling and analysis. Appendix F provides copies of the waste manifests for the soil requiring offsite disposal.

A total of 14 sidewall confirmation soil samples were collected from around the perimeters of the 2 small excavations (Figure 8-1). Only one stockpile soil sample was collected as most of the soil from the excavations was sent to the Rhino Disposal Facility (160 cubic yards). The laboratory results for the confirmation and stockpile soil samples collected from the excavation are discussed below.

### 8.1.1 Excavation Confirmation Soil Sampling Results

Confirmation samples were collected at a total of 14 locations (WPOL-SW20 through WPOL-31) from the sidewalls along the perimeter of the latest excavations (Figure 8-1). Samples were collected according to the protocol presented in Section 4.1 of the *Final Letter Work Plan PCS Excavation at SS-17, FT-31, and the West POL Yard* (FWENC, 2003a). These 14 sidewall samples collected during the excavation were analyzed for VOCs, SVOCs, and TPH (GRO, DRO, and ORO). The analytical results (detections only) are summarized in Table 8-1 of this report, and selected analytical results are displayed on Figure 8-2.

Fourteen VOCs were detected above the MDL in the 14 confirmation soil samples collected during the 2006 excavation event. Five of those VOCs (1-chlorohexane, carbon disulfide, 2-hexanone, methylene chloride, and m-xylene & p-xylene) were detected below their respective reporting limits, and were qualified by the laboratory with a J, denoting an estimated value. The maximum concentrations of the other 9 VOCs detected including n-butylbenzene (21,000 µg/kg), sec-butylbenzene (10,000 µg/kg), ethylbenzene (4,900 µg/kg), isopropylbenzene (3,500 µg/kg), p-isopropyltoluene (9,800 µg/kg), naphthalene (17,000 µg/kg), n-propylbenzene (6,900 µg/kg), 1,2,4-trimethylbenzene (48,000 µg/kg), and 1,3,5-trimethylbenzene (8,200 µg/kg) were found in the sample collected at WPOL-SW26. However, all the VOCs detected in WPOL-SW26 and all other confirmation samples collected were below their respective NMED SSLs. Additionally, low concentrations of only four SVOCs (benzo[g,h,i]perylene, fluorene, 2-methylnaphthalene, and naphthalene) were detected in the excavation sidewall soil samples. The

maximum concentrations of all the SVOCs were also below any applicable NMED SSLs (NMED, 2006a).

TPH was analyzed for GRO ($C_6 - C_{10}$), DRO ($C_{10} - C_{28}$) and ORO ($>C_{20} - C_{36}$). The TPH-GRO and DRO fractions were detected in the majority of the sidewall samples collected. TPH-GRO ranged from 0.14 J mg/kg to 1,000 mg/kg and TPH-DRO ranged from 2.8 J to 3,900 mg/kg. TPH-ORO was detected above the method detection limit in only one of the confirmation soil samples collected at the West POL Yard with a concentration of 70 mg/kg (WPOL-SW25). The combined TPH-GRO and DRO concentrations (TPH-ORO was not detected) for the samples collected at WPOL-SW20 (4,900 mg/kg), WPOL-SW26 (3,630 mg/kg), WPOL-SW27 (2,500 mg/kg), and WPOL-SW28 (1,280 mg/kg) were each above the NMED TPH screening guideline for kerosene and jet fuel (940 mg/kg) (NMED, 2006b). These sidewall samples were located along the northern wall of the excavation immediately adjacent to the southern most storage tank. Excavation activities could not continue further without completely removing the USTs as the excavation extended up to the tank containment wall. Therefore, due to these elevated detections of TPH along the northern sidewall (WPOL-SW20, -SW26, -SW27, and –SW28) of the excavation (Figure 8-2), a site specific risk based evaluation was performed for the West POL Yard. Results of the risk based evaluation are presented in Section 8.1.3 of this report.

### 8.1.2 Stockpile Analytical Results

Only one soil stockpile sample was collected during the ACM excavation event. The analytical results are summarized (detections only), in Table 8-1 of this report. All the VOCs and SVOCs detected in this stockpile sample were well below the current NMED SSLs for those compounds. Furthermore, the combined TPH-GRO and DRO concentration (TPH-ORO was not detected) was 345 mg/kg which is below the NMED TPH screening guideline for kerosene and jet fuel (940 mg/kg) (NMED, 2006b).

### 8.1.3 Risk Based Evaluation

This section presents the methodology used for risk evaluation at the West POL Yard. The methodology consists of the following:

1. Compilation of data (refer to Section 8.1.3.1);
2. Identification of chemicals of potential concern (COPCs) (refer to Section 8.1.3.2);
3. Development of exposure model (EM) (refer to Section 8.1.3.3);
4. Identification of target levels (refer to Section 8.1.3.4);
5. Calculation of representative concentrations (refer to Section 8.1.3.7); and
6. Comparison of representative concentrations with target levels (refer to Section 8.1.3.8).

Each of the above steps is presented below.

#### 8.1.3.1 Compilation of Data

Following is a summary of the soil data available for the risk assessment (RA) at the West POL Yard:

| Date | Sample Locations | No. of Sample Locations | No. of Samples |
|---|---|---|---|
| December 2002 | EX01 to EX19, EX09A, EX09B, EX10, EX11A, EX12A, EX18A | 24 | 24* |
| October 2005 | SB01, SB03 to SB21 | 19 | 60** |
| October 2006 | SW20 to SW22, SW23A, SW23B, SW23C, SW24 to SW31 | 14 | 14 |

Notes:
* One duplicate sample was collected from EX10.
** Ten duplicate samples were collected from four locations.

Following is a summary of the groundwater data available for the RA at the West POL Yard:

| Monitoring Well | No. of Sampling Events | Sampling Date |
|---|---|---|
| MW-01 | 1 | April 2007 |
| MW-02 | 1 | April 2007 |
| MW-03 | 1 | April 2007 |
| MW-04 | 3* | April 2007** |

Notes:
* Due to poor recharge, MW-04 was sampled three times to collect enough sample for analysis for VOCs, SVOCs, and TPHs, respectively.
** One duplicate sample was collected from MW-04.

Chemicals with at least one detected concentration were considered. Tables 8-2(a) and 8-3(a) present the soil and groundwater data for the chemicals that had at least one detected value.

The data complied above were evaluated for use in the RA as follows:

- Conservatively, data with laboratory qualifiers "B" and "J" were considered as detected concentrations.
- Naphthalene was reported using two analytical methods under VOCs and SVOCs. The two results were treated as follows and naphthalene is shown under VOCs:
  - If both results contained detectable concentrations, the average of the two were taken and considered as detected;
  - If one of the results contained a detectable concentration and the other was non-detect, the non-detect was replaced with ½ the detection limit and an average of the two were taken and considered as detected; and
  - If both of the results had concentrations below the detection limits, the lower detection limit was taken and the sample was considered as non-detect.

- Xylene results were reported in o-xylene, m,p-xylene, and xylenes (total). Xylenes (total) were considered for use in the RA. If xylenes (total) were not reported, isomer xylenes were treated as follows:
    - If both isomer results contained detectable concentrations, the two results were added and considered as detected;
    - If one of the isomer results contained a detectable concentration and the other was non-detect, the detected value and the ½ the detection limit were added and considered as detected; and
    - If both isomer results had concentrations below the detection limits, the detection limits were added and taken as non-detect.
- TPH results reported in TPH-GRO (C6-C10) were not considered in the RA since individual compounds are evaluated. This is consistent with methodology as per the *New Mexico Environment Department TPH Screening Guidelines* (NMED, 2006b).
- TPH results reported in TPH-DRO (C10-C22) and TPH-ORO (>C22-C36) were added as follows and are shown as TPH (C10-C36):
    - If both results contained detectable concentrations, the sum of the two were taken and considered as detected;
    - If one of the results contained a detectable concentration and the other was non-detect, the non-detect was replaced with ½ the detection limit and sum of the two were taken and considered as detected; and
    - If both of the results had concentrations below the detection limits, the average of two detection limits was taken and the sample was considered as non-detect.
- The original sample and the duplicate sample were averaged as follows:
    - If both samples contained detectable concentrations, the average of the two were taken and considered as detected;
    - If one of the samples contained a detectable concentration and the other was non-detect, the non-detect was replaced with ½ the detection limit and an average of the two were taken and considered as detected; and
    - If both of the samples had concentrations below the detection limits, the average of two detection limits was taken and the sample was considered as non-detect.

Based on the above considerations, Tables 8-2(b) and 8-3(b) present the soil and groundwater data used for the RA. Further, Tables 8-2(c) and 8-3(c) present summary statistics of soil and groundwater data used for the RA.

#### 8.1.3.2 Identification of Chemicals of Potential Concern

The chemicals that were detected in soil or groundwater samples were identified from Tables 8-2(b) and 8-3(b), and are presented in Table 8-4. These chemicals were considered as COPCs and are included in the RA. In all, 23 chemicals in soil and 10 chemicals in groundwater are included.

#### 8.1.3.3 Development of Exposure Model

This section presents the EM for the West POL Yard. The EM identifies the potential receptors and the exposure pathways under current and anticipated future conditions.

**Receptors**

Currently, the site is used to store and distribute JP-8 jet fuel to tanker trucks. There are four ASTs within a secondary containment concrete berm, and aboveground and underground product transmission lines. Therefore, a commercial/industrial worker is considered a receptor of concern under current conditions.

As discussed in Section 3.9 of this report, residential development at the West POL Yard is limited and future land use is expected to be commercial/industrial. It is unlikely that a building will be built on the West POL Yard. Therefore, the commercial/industrial worker is considered a receptor of concern under future conditions. Additionally, future construction activities may occur, hence the potential future construction worker is also considered a receptor of concern.

**Exposure Pathways**

Tables 8-5(a) and 8-5(b) present the EMs for the current and future commercial/industrial worker and the future construction worker, respectively.

The complete exposure pathways that will be quantitatively evaluated are summarized below:

For current and future commercial/industrial worker,

- Dermal contact with surficial soil;
- Ingestion of surficial soil;
- Outdoor inhalation of vapors or particulates from surficial soil;
- Outdoor inhalation of vapors from subsurface soil; and
- Outdoor inhalation of vapors from groundwater.

Of the above complete exposure pathways, exposures due to dermal contact with, ingestion of, and outdoor inhalation of vapors or particulates from surficial soil were collectively evaluated and are referred to as the combined pathways from surficial soil.

For the future construction worker,

- Dermal contact with soil to depth of construction;

- Ingestion of soil to depth of construction;
- Outdoor inhalation of vapors or particulates from soil to depth of construction;
- Dermal contact with groundwater; and
- Outdoor inhalation of vapors from groundwater.

For the exposure pathways from soil, exposures due to dermal contact with, ingestion of, and outdoor inhalation of vapors or particulates from soil were evaluated as the combined pathways from soil.

#### 8.1.3.4 Identification of Target Levels

This section discusses the target levels for the complete exposure pathways identified in Section 8.1.3.3 of this report. Table 8-6 presents the target levels for the above exposure pathway and receptor combinations. The target levels were obtained from the following sources:

- **Combined pathways from surficial soil by commercial/industrial worker and from soil by construction worker**: The SSLs for commercial/industrial worker and construction worker as per the *Technical Background Document for Development of Soil Screening Levels, Revision 4.0* (NMED, 2006a) were used. For TPH, the SSL is as per the *New Mexico Environment Department TPH Screening Guidelines* (NMED, 2006b). Note that the SSL for TPH is an averaged TPH value of all the petroleum products for industrial direct exposure in the *New Mexico Environment Department TPH Screening Guidelines* (NMED, 2006b). Five chemicals (1-chlorohexane, 2-hexanone, p-isopropyltoluene, 2-methylnaphthalene, and benzo(g,h,i)perylene) did not have NMED SSLs; therefore, the SSLs were calculated using the methodology included in the *Technical Background Document for Development of Soil Screening Levels, Revision 4.0* (NMED, 2006a) for both the commercial/industrial worker and construction worker. Toxicity values and physical/chemical properties used to develop the SSLs are presented in Table 8-7.

- **Outdoor inhalation of vapors from subsurface soil and groundwater by commercial/industrial worker and from groundwater by construction worker:** The target levels for outdoor inhalation of vapors from subsurface soil and groundwater were developed as per the *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites* (American Society for Testing and Materials [ASTM], 1995). The details of the development of target levels are discussed in Section 8.1.3.5 of this report.

- **Dermal contact with groundwater for construction worker:** The target levels for dermal contact with groundwater for construction worker were developed as per the *Risk Assessment Guidance for Superfund Volume I, Part E Supplemental Guidance for Dermal Risk Assessment* (USEPA, 2004a). The details of the development of target levels for this pathway and receptor combination are discussed in Section 8.1.3.6 of this report.

### 8.1.3.5 Target Levels for Outdoor Inhalation of Vapors from Subsurface Soil and from Groundwater

This section describes the procedure used to calculate the target levels for the outdoor inhalation of vapors from subsurface soil and groundwater by commercial/industrial worker and for the outdoor inhalation of vapors from groundwater by construction worker as per the *Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites* (ASTM, 1995). The target levels for this pathway were developed only for the volatile chemicals. As per the *User's Guide for Evaluating Subsurface Vapor Intrusion into Buildings* (USEPA, 2004b), a chemical was considered volatile if it's Henry's law constant (H) is $1 \times 10^{-5}$ atmospheric-cubic meters per mole (atm-$m^3$/mol) (unitless H of $4.2 \times 10^{-4}$) or greater and it's molecular weight is 200 grams per mole (g/mole) or less.

Specifically, the calculation of target levels requires the following:

- Toxicity parameters;
- Physical and chemical properties;
- Exposure factors;
- Fate and transport parameters; and
- Target risk levels.

Each of these is discussed below.

#### Toxicity Parameters

The inhalation toxicity parameters for COPCs are presented in Table 8-8(a).

#### Physical and Chemical Properties

The physical and chemical properties for COPCs are presented in Table 8-8(a).

#### Exposure Factors

The exposure factors for outdoor inhalation of vapors from subsurface soil and groundwater by commercial worker and for outdoor inhalation of vapors from groundwater by construction worker are presented in Table 8-8(b).

#### Fate and Transport Parameters

The fate and transport parameters for outdoor inhalation of vapors from subsurface soil and groundwater are presented in Table 8-8(c).

Specifically, the following geotechnical parameters are required to evaluate outdoor inhalation of vapors from subsurface soil.

- Soil dry bulk density ($\rho_b$);
- Soil total porosity ($n$);
- Soil water-filled porosity ($\theta_{wv}$); and

- Fractional organic carbon content ($f_{oc}$).

For the West POL Yard, site-specific geotechnical parameters were analyzed for the vadose zone soil. These site-specific geotechnical parameters are presented in Table 7-1. Two samples were collected and the average values of these two samples were used, if appropriate.

Soil dry bulk density for vadose zone ($\rho_b$) was measured and the average value of 1.5 grams per cubic centimeter (g/cm$^3$) was used. Fractional organic carbon content ($f_{oc}$) was measured and the average value of 0.0046 was used.

Soil total porosity for vadose zone ($n$) was calculated using the measured soil dry bulk density average ($\rho_b$) and measured specific gravity average ($\rho_s$). Soil water-filled porosity for the vadose zone ($\theta_{wv}$) was calculated using the measured moisture content average ($\theta_{wg}$), the soil dry bulk density average ($\rho_b$), and the density of water ($\rho_l$). The calculations of soil total porosity and soil water-filled porosity are shown as below:

$$n = 1 - \frac{\rho_b}{\rho_s} = 1 - \frac{1.5}{1.7} = 0.118$$

$$\theta_{wv} = \theta_{wg} \times \frac{\rho_b}{\rho_l} = 0.143 \times \frac{1.5}{1} = 0.215$$

However, the calculated soil total porosity and soil water-filled porosity do not seem appropriate since the calculated soil-water filled porosity exceeds the calculated soil total porosity. Therefore, default soil total porosity and water-filled porosity values as per the NMED (2006a) were used.

These geotechnical parameters are presented in Table 8-8(c).

## Target Risk Levels

The target risk for carcinogenic of 1 $\times 10^{-5}$ and target hazard quotient (HQ) of 1.0 (NMED, 2006a) were used to develop the target levels for outdoor inhalation of vapors from subsurface soil and from groundwater.

The above input parameters were used to calculate the target levels for outdoor inhalation of vapors from subsurface soil and groundwater by commercial/industrial worker and for outdoor inhalation of vapors from groundwater by construction worker. Those values are presented in Table 8-6.

The target levels for outdoor inhalation of vapors from groundwater by commercial/industrial worker and construction worker are not of concern since the target levels exceed the water solubility for all of COPCs. Therefore, this pathway was not considered further in the RA.

### 8.1.3.6 Target Levels for Dermal Contact with Groundwater

This section describes the procedure used to calculate the target levels for the dermal contact with groundwater by construction worker as per the *Risk Assessment Guidance for Superfund Volume I: Human Health Evaluation Manual Part E Supplemental Guidance for Dermal Risk Assessment* (USEPA, 2004a).

The calculation of target levels requires the following:

- Toxicity parameters;
- Chemical-specific parameters for dermal contact with water;
- Exposure factors; and
- Target risk levels.

Each of these is discussed below.

#### Toxicity Parameters

Dermal toxicity parameters are not readily available, and in the absence of direct measurement of dermal toxicity, use of oral toxicity values is considered an acceptable alternative by the USEPA. Therefore, the oral toxicity parameters were used and are presented in Table 8-9(a).

#### Chemical-Specific Parameters for Dermal Contact with Water

The development of target levels requires parameters for dermal contact pathways. The chemical-specific parameters for dermal contact pathways are presented in Table 8-9(a).

#### Exposure Factors

The exposure factors for dermal contact with groundwater for a construction worker are presented in Table 8-9(b).

#### Target Risk Levels

The target risk for carcinogenic compounds of $1 \times 10^{-5}$ and target HQ of 1.0 (NMED, 2006a) were used to develop the risk-based target levels for dermal contact with groundwater.

The above input parameters were used to calculate the target levels for dermal contact with groundwater by construction worker. Those values are presented in Table 8-6.

### 8.1.3.7 Calculation of Representative Concentration

The maximum detected soil and groundwater concentrations were obtained from the data used for the RA (Tables 8-2(b) and 8-3(b)). These maximum detected soil and groundwater concentrations were compared with the target levels (Tables 8-10 and 8-13). The use of maximum concentration is very conservative because (i) the calculation of target levels assumes long-term exposures; and (ii) the models used to develop target levels assume average concentration over the exposure domain and not a single point concentration.

For the chemicals whose maximum detected concentration exceeded the target levels, the average concentrations were compared with the target levels. The average concentrations are more representative of the concentrations. To calculate the average concentrations, the non-detect values were replaced with ½ the detection limits.

#### 8.1.3.8 Comparison of Representative Concentration with Target Levels

**Soil**

The comparison of maximum detected soil concentrations with target levels is presented in Table 8-10. The maximum detected 1,3,5-trimethylbenzene and TPH (C10-C36) concentrations in soil exceeded the target levels for combined pathways from surficial soil by commercial/industrial worker and for combined pathways from soil by construction worker. For all other COPCs, the maximum detected soil concentrations did not exceed the target levels for soil.

For the two chemicals for which the maximum soil concentrations exceeded the target levels, the average concentrations for surficial soil and for soil to depth of construction activity were calculated (Tables 8-11(a) and 8-11(b)). Surficial soil was assumed to be soil samples collected in 0 to 2 ft bgs. Soil to depth of construction was assumed to be soil samples collected in 0 – 10 ft bgs. The average concentrations were compared with target levels and these comparisons are presented in Tables 8-12(a) and 8-12(b). The tables show that the average soil concentrations of 1,3,5-trimethylbenzene and TPH (C10-C36) did not exceed the target levels for combined pathways from surficial soil by commercial/industrial worker and for combined pathways from soil by construction worker. Therefore, the current soil concentration is protective of current and future commercial/industrial worker and future construction worker.

**Groundwater**

The comparison of maximum detected groundwater concentrations with target levels is presented in Table 8-13. For all COPCs, the maximum detected groundwater concentrations did not exceed the target levels for groundwater. Therefore, the current groundwater concentration is protective of current and future commercial/industrial worker and future construction worker.

## 8.2 Site Restoration

Site restoration activities for the ACM removal action at the WPOL Yard included backfilling the excavation with clean soil stockpiled during the excavation and additional clean soil from the HAFB FT-31 Landfarm. The backfill was compacted with a trackhoe and the excavations were graded to existing surface topography and slightly arched to provide drainage for storm water run-off. The final surface rehabilitation included replacing landscaping rock over the backfilled excavated areas.

## 8.3 PCS Transportation and Disposal

FWENC excavated and stockpiled 1,300 cubic yards of PCS at the WPOL Yard in January 2003. Then in March 2003, Bhate subcontracted Rhino Environmental who transported most of this

stockpiled PCS (approximately 1,400 tons or 1,200 cubic yards) to their disposal facility south of Alamogordo. Rhino transported an additional 160 cubic yards (approximately 190 tons) of PCS to their landfarm during the ACM excavation activities in 2006. The waste manifests, for contaminated soil disposed offsite from the excavations (March 2003 and October 2006), are presented in Appendix F. The remainder of the soil that was stockpiled from the excavation and was subsequently sampled was determined to be clean for backfill into the excavation.

# 9 CONCLUSIONS AND RECOMMENDATIONS

Additional PCS from the West POL Yard was excavated and transported for offsite disposal (Rhino Disposal Facility) in October 2006. Confirmation soil samples collected from the sidewalls of the excavation provide documentation of the complete removal of soil containing petroleum hydrocarbons, VOCs, or SVOCs in excess of the NMED SSLs, from outside the secondary containment area around the ASTs. Remaining PCS found underneath the containment area near the southern most AST could not be removed, and as a result, a risk assessment (covered in Section 8.1.3 of this report) was performed for potential future commercial/industrial workers and construction workers. Furthermore, analytical results from groundwater samples collected at the site do not contain VOCs, SVOCs, or TPH above any NMWQCC groundwater standards or EPA MCLs.

PCS excavated from the West POL Yard was transported offsite for treatment and disposal. Soil that was analyzed during the excavation process and determined to be acceptable for backfilling along with imported clean material was used to backfill the excavation and the surface was restored to the original condition.

The maximum detected soil and groundwater concentrations were compared with the soil target levels and groundwater target levels respectively. The maximum detected groundwater concentrations did not exceed the groundwater target levels for any of the COPCs. The maximum detected 1,3,5-trimethylbenzene and TPH (C10-C36) concentrations in soil exceeded the target levels for combined pathways from surficial soil by commercial/industrial worker and for combined pathways from soil by construction worker. However, the average soil concentrations of 1,3,5-trimethylbenzene and TPH (C10-C36) did not exceed the target levels for combined pathways from surficial soil by commercial/industrial worker and for combined pathways from soil by construction worker. Therefore, the current soil concentration is protective of the current and future commercial/industrial worker and future construction worker.

Based upon the sampling, laboratory groundwater analytical results, the risk-based evaluation, and documentation of the additional excavation and disposal provided; No Further Action is recommended for the West POL Yard. NFA for the West POL Yard is based upon NMED Closure Criterion #5 which states:

> *"The site was characterized or remediated in accordance with applicable state and/or federal regulations, and the available data indicate that contaminants pose an acceptable level of risk under current and projected future land use."*

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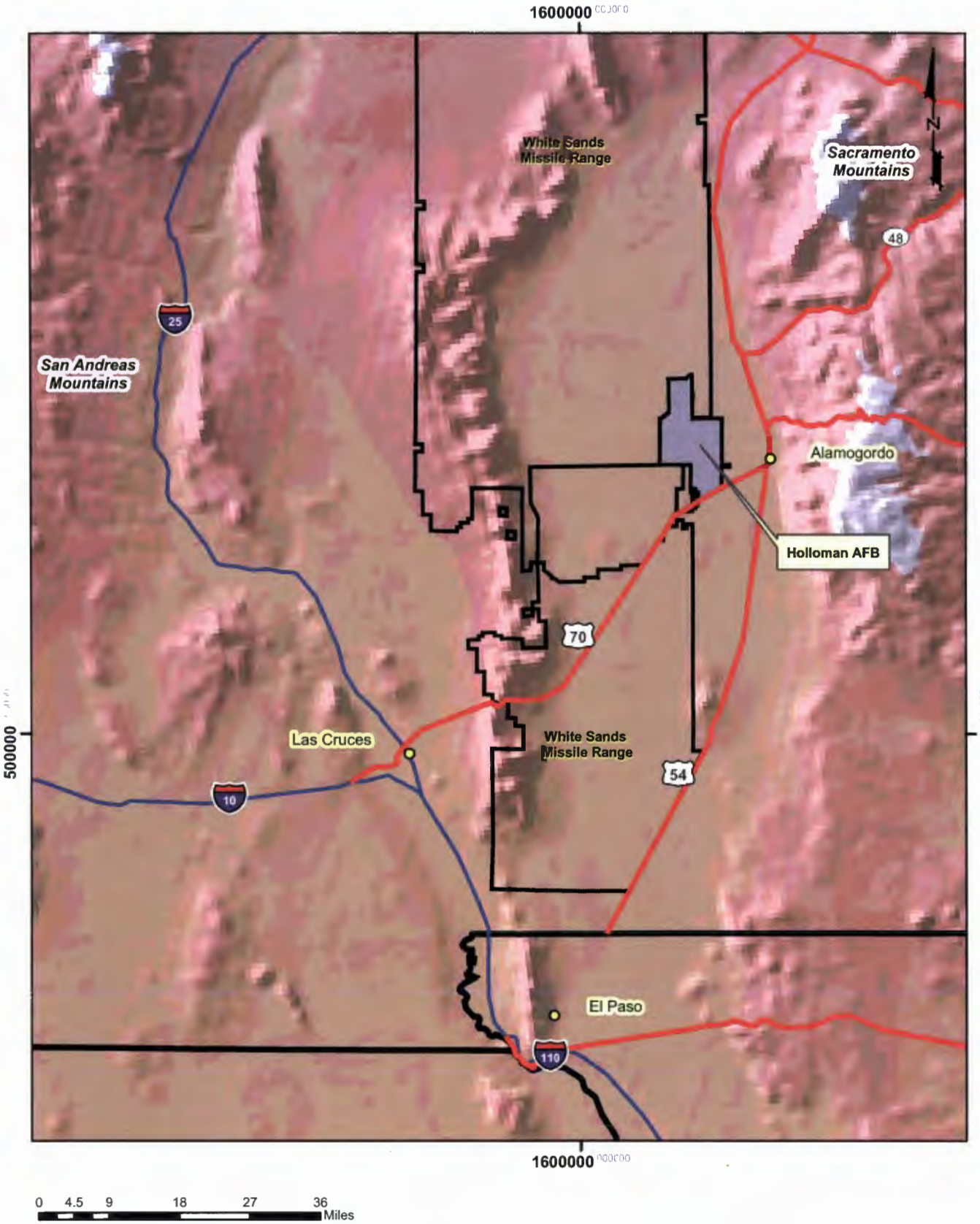
# FIGURES

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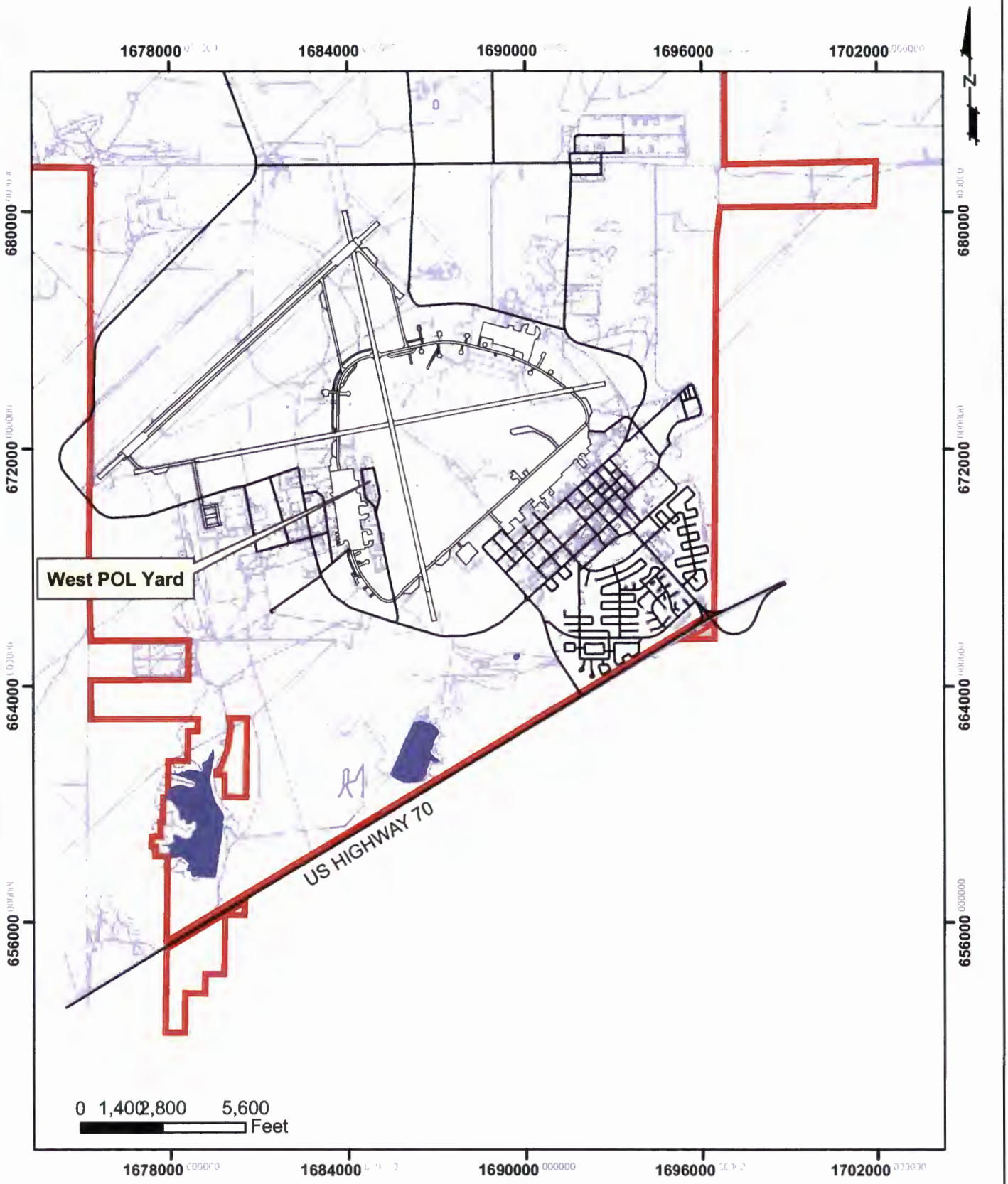
| Holloman AFB, New Mexico Location Map | | | | West POL Yard Completion Report Accelerated Corrective Measures Holloman AFB, New Mexico |
|---|---|---|---|---|
| PROJECT NO. | SCALE | DATE | DRAWN BY: cm | |
| 9040238 | 1"=18 Miles | 4/16/08 | DRAWING NO: Figure 2-1 | Figure 2-1 |

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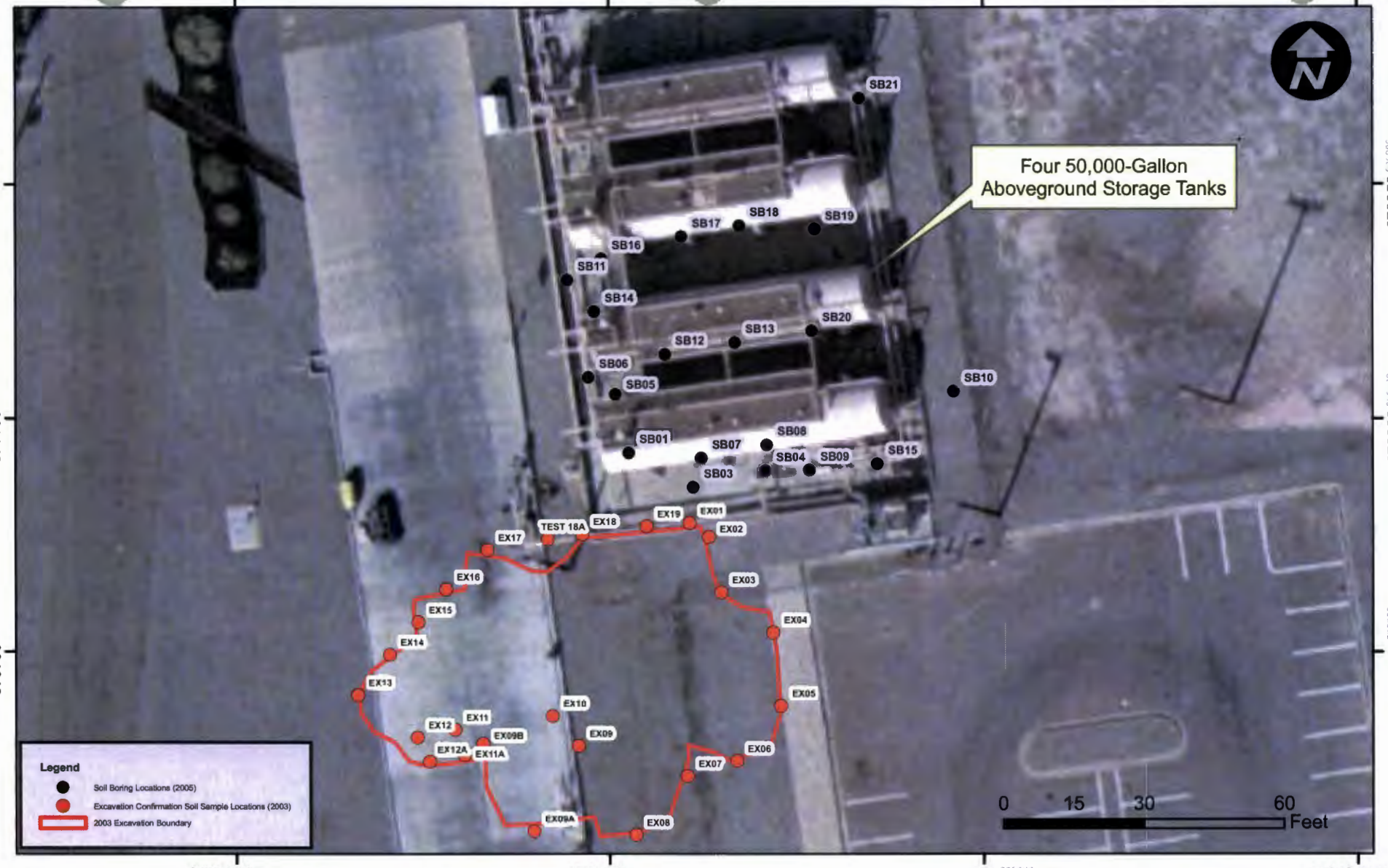
West POL Yard
Site Location Map

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | Shown | 4/16/08 | cm |
| | | | DRAWING NO: Figure 2-2 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 2-2

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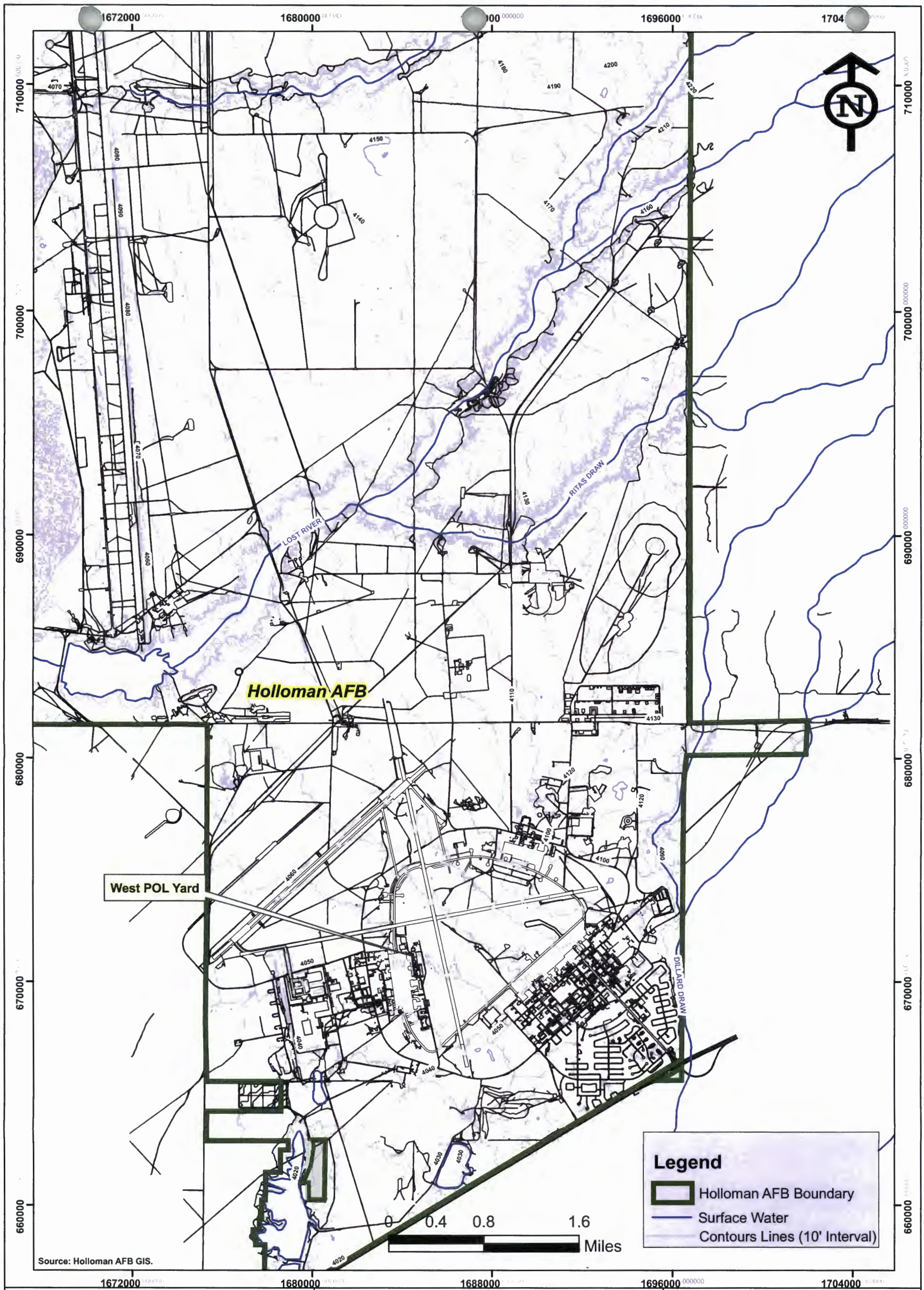
**West POL Yard Site**
**Previous Excavation Boundary and Previous Sampling Locations**

| PROJECT NO. | SCALE | DATE | DRAWN BY: cm |
|---|---|---|---|
| 9040238 | 1"=30' | 4/16/08 | DRAWING NO: figure2-3 |

West POL Yard
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 2-3

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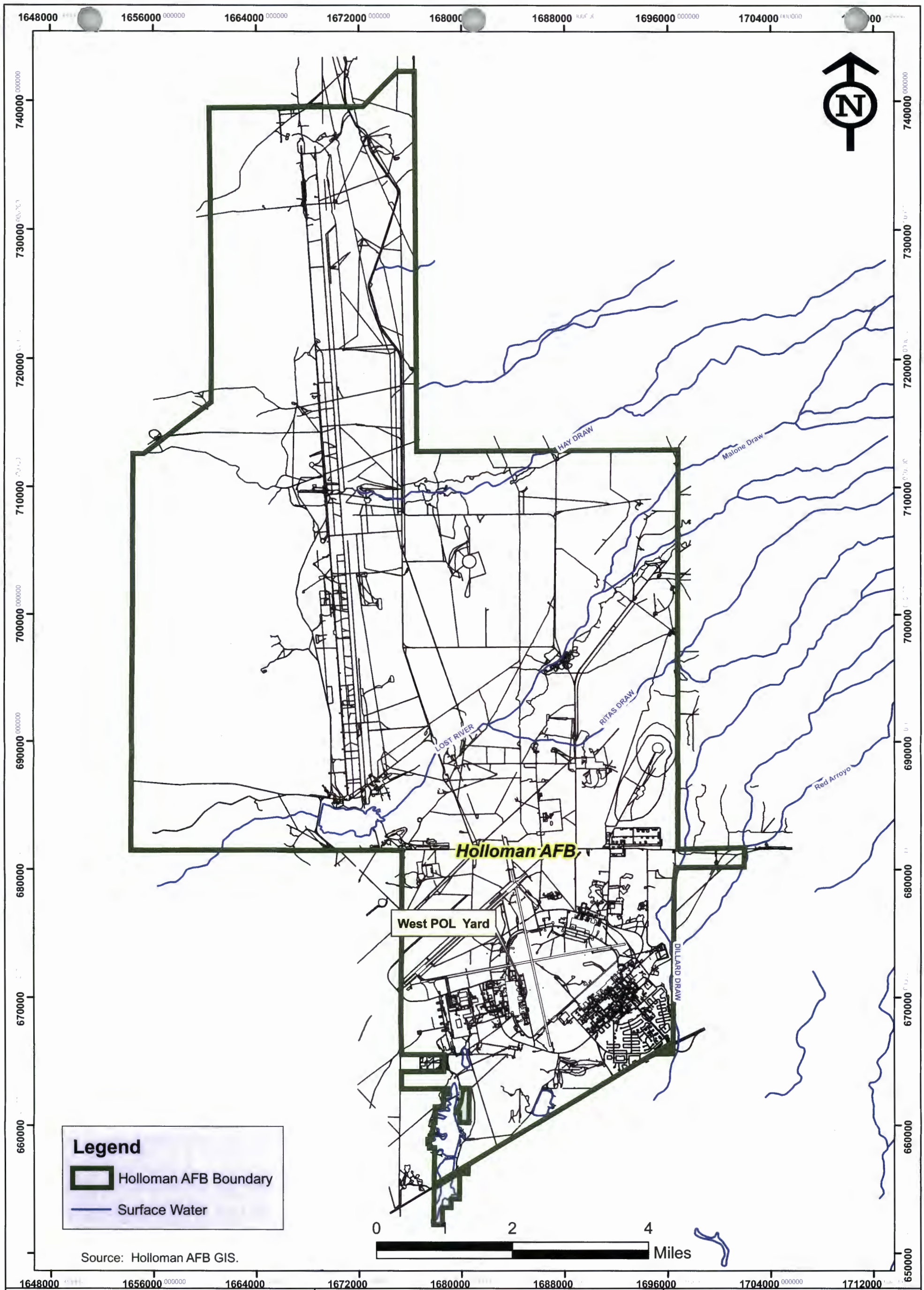
# Topographic Map
# Holloman AFB, New Mexico

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=4000' | 4/16/08 | cm |
| | | | DRAWING NO: Topo_3-1 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-1

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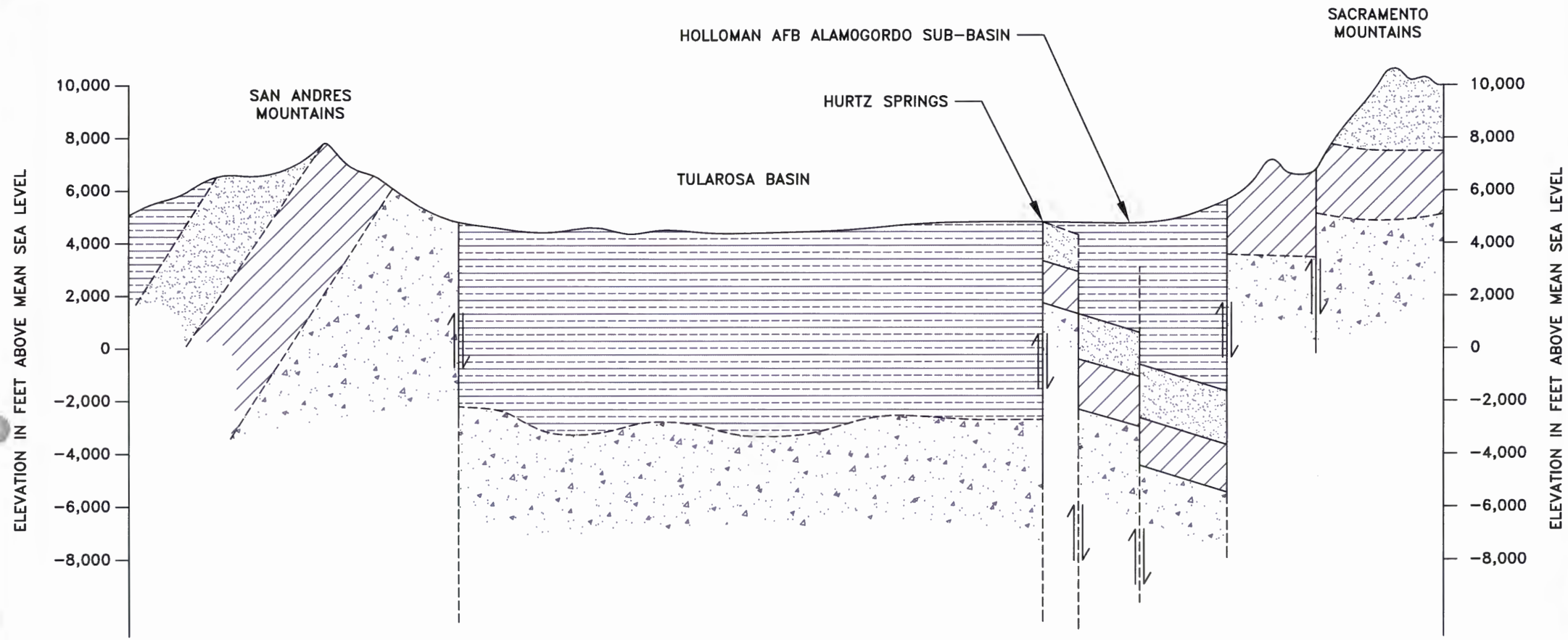
**Surface Drainages**
**Holloman AFB, New Mexico**

| PROJECT NO. | SCALE | DATE | DRAWN BY: cm |
|---|---|---|---|
| 9040238 | 1"=7000' | 4/16/08 | DRAWING NO: drainage_3-2 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-2




LEGEND:

- CENOZOIC ALLUVIUM AND LAKE DEPOSITS
- SEDIMENTARY ROCK OF PERMIAN AGE
- SEDIMENTARY ROCKS OF CAMBRIAN, ORDOVICIAN, SILURIAN, DEVONIAN, MISSISSIPPIAN AND PENNSYLVANIAN AGE
- INTRUSIVE ROCKS OF TERTIARY, CRETACEOUS OR PRECAMBRIAN AGE
- FAULT, ARROWS INDICATE RELATIVE MOVEMENT

0 5 10
SCALE IN MILES:

NOTES:
This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-3

GENERALIZED GEOLOGIC CROSS SECTION OF THE TULAROSA BASIN

| PROJECT NO. | SCALE | DATE | DRAWN BY: | DRAWING NO: |
|---|---|---|---|---|
| 9040238 | SHOWN | 4/17/08 | MRM | Figure 3-3 |

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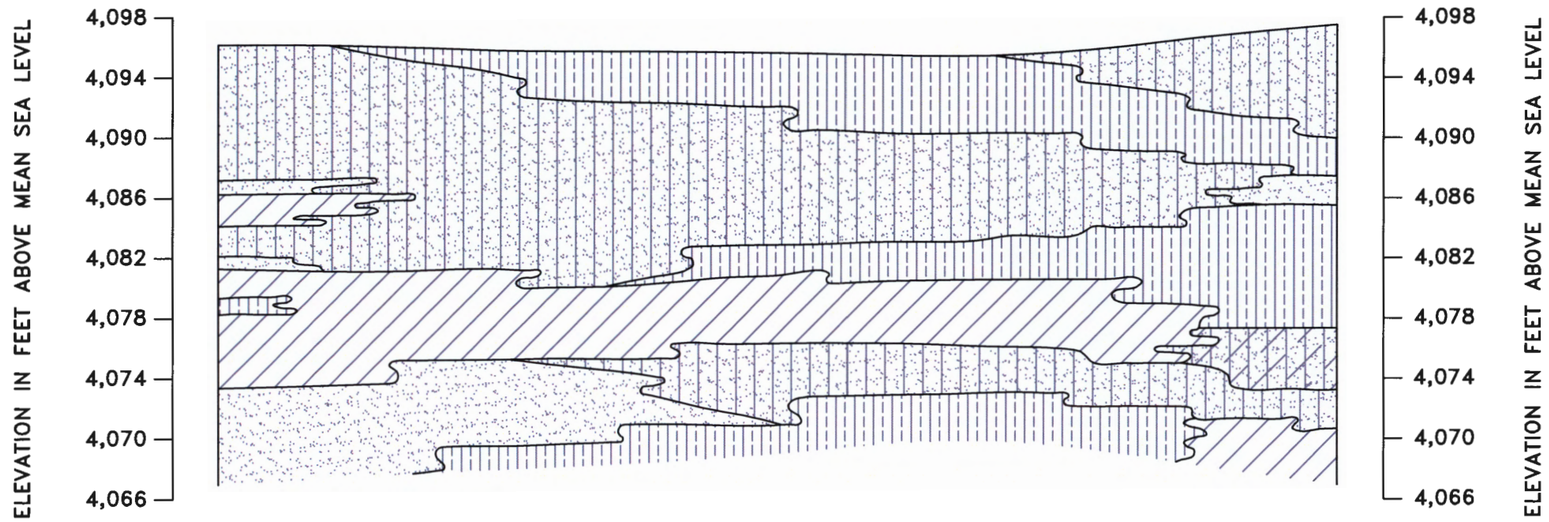


LEGEND:

- CL AND CH – CLAY
- ML AND MH – SILT
- SM – SILTY SAND
- SM–SC – SILTY, CLAYEY SAND
- SP – SAND

NOTES:
This information is depicted to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated. Please verify the location of all features including underground and aboveground utilities prior to conducting any subsurface exploration or site assessment.

0' 100' 200'
SCALE IN FEET:

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-4

GENERALIZED NEAR-SURFACE GEOLOGIC CROSS SECTION FOR HOLLOMAN AFB

| PROJECT NO. | SCALE | DATE | DRAWN BY: | DRAWING NO: |
|---|---|---|---|---|
| 9040238 | SHOWN | 4/17/08 | MRM | Figure 3-4 |

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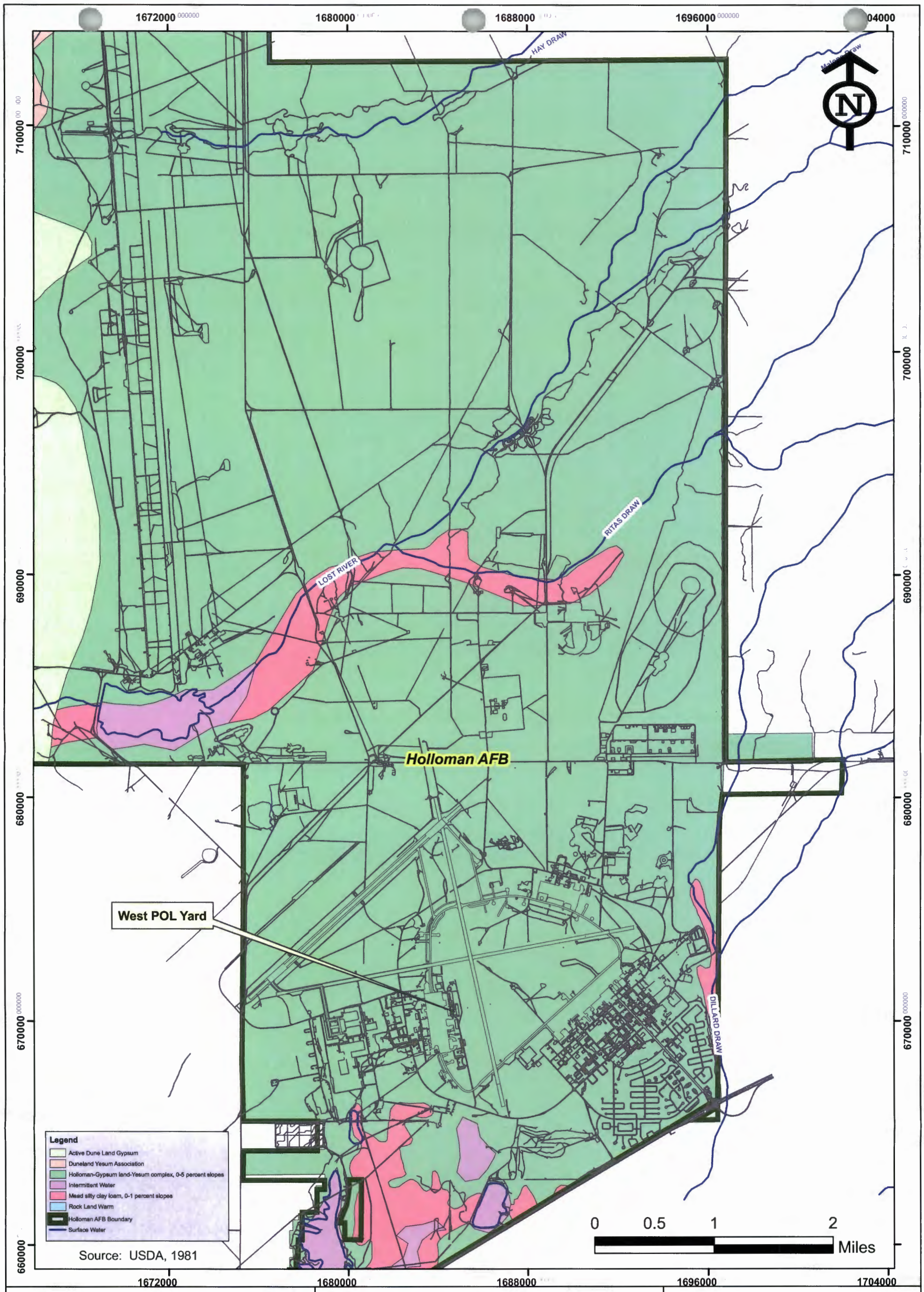


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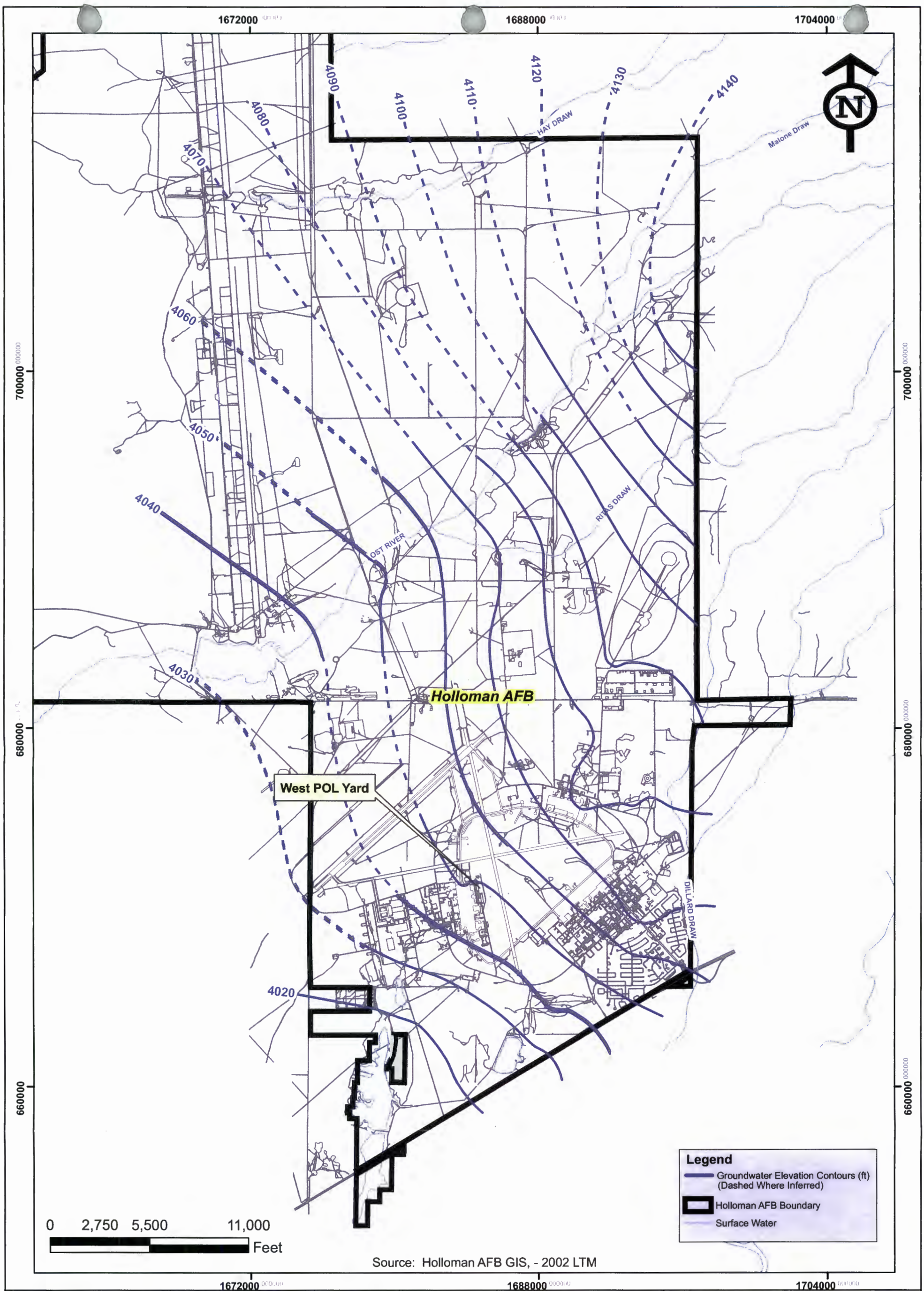
# Soil Map
# Holloman AFB, New Mexico

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=4000' | 4/16/08 | cm |
| | | | DRAWING NO: soils_3-5 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-5




Source: Holloman AFB GIS, - 2002 LTM

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# Groundwater Contour Map
# Holloman AFB, New Mexico

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=5000' | 4/16/08 | cm |
| | | | DRAWING NO: gwcontour_3-6 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-6

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**West POL Yard**
**Potentiometric Surface Map**

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=60' | 4/16/08 | cm |
| | | | DRAWING NO: figure3-7 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 3-7

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**West POL Yard**
**ACM Monitoring Well Locations**

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=60' | 4/16/08 | cm |
| | | | DRAWING NO: figure5-1 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 5-1

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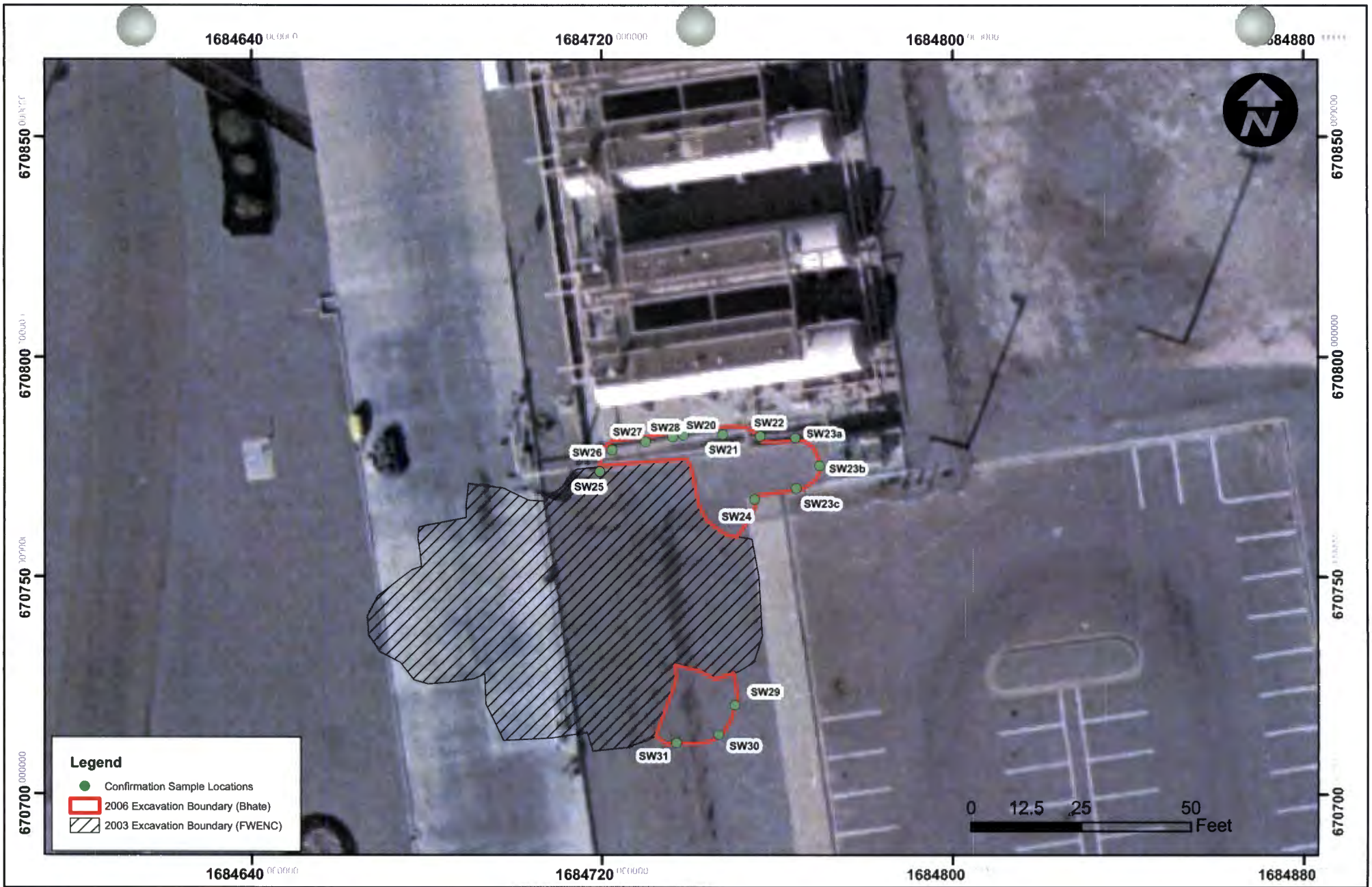
**Groundwater Analytical Results (April 2007)**

| PROJECT NO. | SCALE | DATE | DRAWN BY: |
|---|---|---|---|
| 9040238 | 1"=60' | 4/16/08 | cm |
| | | | DRAWING NO: figure7-1 |

West POL Yard Completion Report
Accelerated Corrective Measures
Holloman AFB, New Mexico

Figure 7-1

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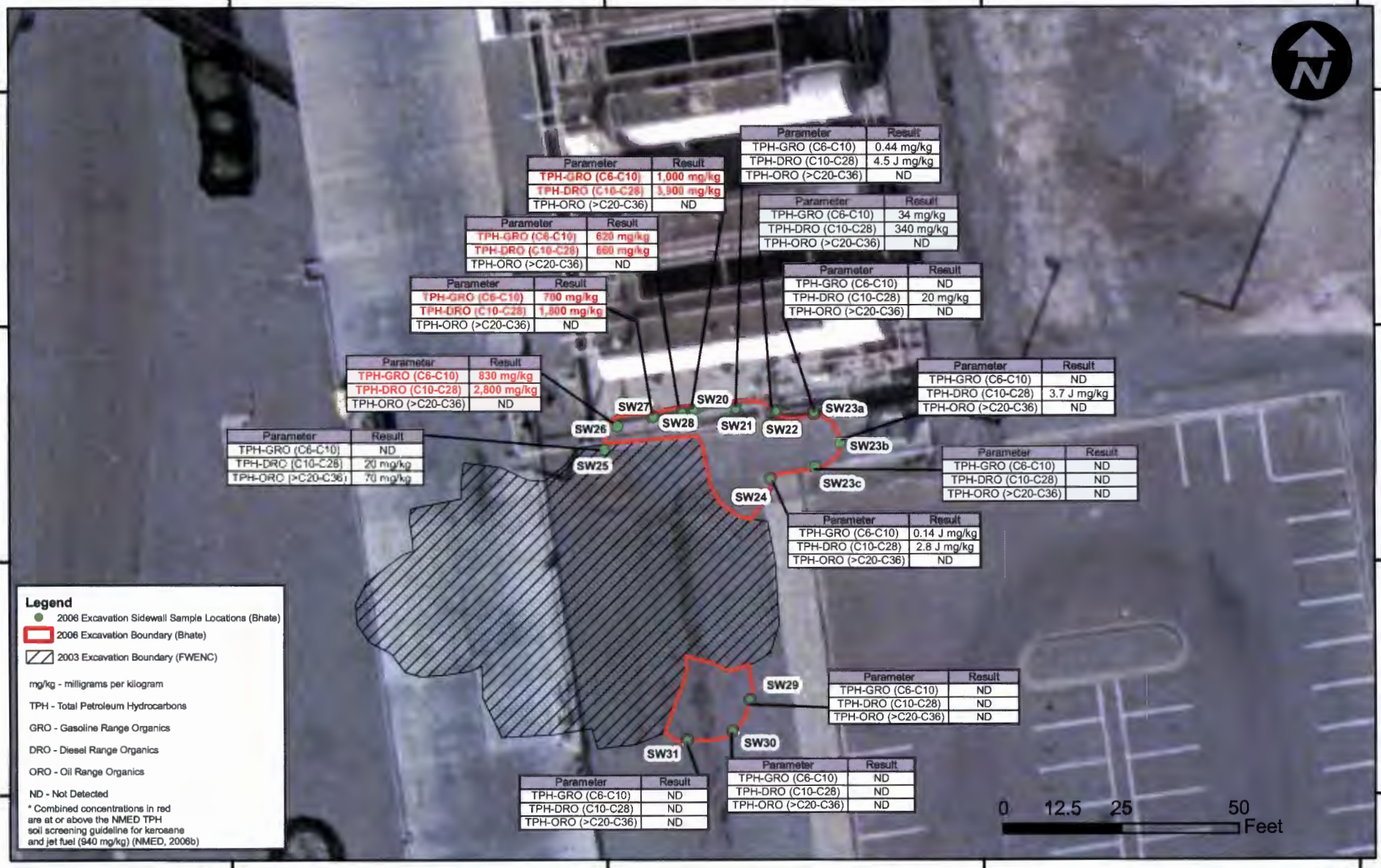
**Excavation Areas**
**(January 2003 and October 2006)**

| PROJECT NO. | SCALE | DATE | DRAWN BY: cm |
|---|---|---|---|
| 9040238 | 1"=30' | 4/16/08 | DRAWING NO: figure8-1 |

West POL Yard
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 8-1

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**Confirmation Soil Analytical Results (October 2006)**

| PROJECT NO. | SCALE | DATE | DRAWN BY: cm |
|---|---|---|---|
| 9040238 | 1"=30' | 4/16/08 | DRAWING NO: figure8-2 |

West POL Yard
Accelerated Corrective Measures
Completion Report
Holloman AFB, New Mexico

Figure 8-2

# TABLES

**Table 3-1**
**Groundwater Elevation Summary (April 2007)**
**West POL Yard Fuel Spill Site**
**Holloman Air Force Base, New Mexico**

| Well | Northing | Easting | Elevation TOC (ft above msl) | DTW from TOC (ft below TOC) | Groundwater Elevation April 18, 2007 (ft above msl) |
|---|---|---|---|---|---|
| WPOL-MW01 | 670921.9 | 1684775.5 | 4,059.17 | 6.40 | 4,052.77 |
| WPOL-MW02 | 670663.0 | 1684644.9 | 4,059.06 | 6.38 | 4,052.68 |
| WPOL-MW03 | 670768.1 | 1684735.5 | 4,059.43 | 6.70 | 4,052.73 |
| WPOL-MW04 | 670648.9 | 1684729.8 | 4,058.38 | 5.79 | 4,052.59 |

Notes:
TOC = Top of Casing
DTW = Depth to Water
ft = feet
msl = mean sea level

**Table 3-2**
**Monitoring Well Construction Details**
**West POL Yard Fuel Spill Site**
**Holloman Air Force Base, New Mexico**

| Well ID | Installation Date | Sampled 2007 | Diameter (inches) | Screen Interval (ft bgs) | Depth to Water (ft below TOC) | Total depth (feet) | Status |
|---|---|---|---|---|---|---|---|
| WPOL-MW01 | 4/16/2007 | 1 | 1 | 2.2 - 12.2 | 6.43 | 12.5 | Active |
| WPOL-MW02 | 4/16/2007 | 1 | 1 | 2.2 - 12.2 | 6.38 | 12.5 | Active |
| WPOL-MW03 | 4/16/2007 | 1 | 1 | 1.8 - 11.8 | 6.70 | 12.0 | Active |
| WPOL-MW04 | 4/16/2007 | 1 | 1 | 0.8 - 10.8 | 5.79 | 11.0 | Active |

Notes:

ft bgs - Feet below ground surface
ft below TOC - Feet below Top of Casing (based on July 26, 2007 groundwater elevation)

**Table 7-1**
**Soil Geotechnical Parameters**
**West POL Yard**
**Holloman Air Force Base, New Mexico**

| **Sample ID** | **Method** | **Units** | **WPOL-DP01-5** | **WPOL-DP04-5** | **Average** |
|---|---|---|---|---|---|
| **Depth (ft bgs)** | | | **1-5** | **1-5** | |
| **Date sampled** | | | **4/16/2007** | **4/16/2007** | |
| **Parameter** | | | | | |
| Bulk Density (Dry Basis) | ASTM D2937-94 M | g/mL | 1.4 | 1.6 | 1.5 |
| Fractional Organic Carbon | ASTM D2974-87 | % | 4.0 | 5.2 | 4.6 |
| Moisture Content (Solids, Percent) | EPA 160.3 | % | 16.9 | 11.7 | 14.3 |
| Specific Gravity | ASTM 1429 | | 1.6 | 1.8 | 1.7 |

Notes:
ASTM - American Society for Testing and Materials
EPA - Environmental Protection Agency
ft bgs - Feet below ground surface
g/mL - grams per milliliter
% - percent

**Table 7-2**
**Groundwater Analytical Results (April 2007)**
**West POL Yard, Holloman Air Force Base, New Mexico**

| Client Sample ID: | Groundwater Screening Levels | | WPOL-MW01 | | WPOL-MW02 | | WPOL-MW03 | | WPOL-MW04-a | | WPOL-MW04 | | WPOL-MW04 | | WPOL-MW04 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | NMWQCC[1] | EPA MCL | F48898-1 | | F48898-2 | | F48898-3 | | F48898-4 | | F48994-1 | | F48994-1A | | F48994-1B | |
| Date Sampled: | | | 4/18/2007 | | 4/18/2007 | | 4/18/2007 | | 4/18/2007 | | 4/18/2007 | | 4/23/2007 | | 4/24/2007 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | µg/L | µg/L | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q |
| Acetone | NV | NV | 5.0 | U | 5.0 | U | 5.0 | U | 5.0 | U | 28.7 | | NA | | NA | |
| n-Butylbenzene | NV | NV | 0.50 | U | 0.50 | U | 1.6 | | 1.4 | | 0.50 | U | NA | | NA | |
| sec-Butylbenzene | NV | NV | 0.50 | U | 0.50 | U | 9.1 | | 8.8 | | 0.50 | U | NA | | NA | |
| tert-Butylbenzene | NV | NV | 0.50 | U | 0.50 | U | 0.67 | J | 0.64 | J | 0.50 | U | NA | | NA | |
| Isopropylbenzene | NV | NV | 0.50 | U | 0.50 | U | 2.3 | | 2.2 | | 0.50 | U | NA | | NA | |
| Methyl ethyl ketone | NV | NV | 2.5 | U | 2.5 | U | 2.5 | U | 2.5 | U | 9.0 | | NA | | NA | |
| Naphthalene | 30 | NV | 1.0 | U | 1.0 | U | 1.6 | J | 1.2 | J | 1.0 | U | NA | | NA | |
| n-Propylbenzene | NV | NV | 0.50 | U | 0.50 | U | 0.56 | J | 0.52 | J | 0.50 | U | NA | | NA | |
| **Semi-Volatile Organic Compounds** | µg/L | µg/L | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q | µg/L | Q |
| Dibenzofuran | NV | NV | 1.0 | U | 0.98 | U | 1.0 | U | 1.1 | J | NA | | 1.4 | U | NA | |
| **Total Petroleum Hydrocarbons** | mg/L | mg/L | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | |
| TPH DRO (C10-C22) | NV | NV | 0.10 | U | 0.10 | U | 1.00 | | 0.988 | | NA | | NA | | 0.0975 | J |
| TPH ORO (>C22-C36) | NV | NV | 0.110 | J | 0.164 | J | 0.605 | | 0.634 | | NA | | NA | | 0.152 | J |
| **General Chemistry** | mg/L | mg/L | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | | mg/L | |
| Solids, Total Dissolved | 1,000 | NV | 6,480 | | 3,430 | | 2,680 | | 3,880 | | NA | | 4,310 | | NA | |

Notes:
NMWQCC = New Mexico Water Quality Control Commission
EPA = Environmetal Protection Agency
MCL = Maximum Contaminant Level
µg/L = micrograms per liter
mg/L = milligrams per liter
NA = not analyzed
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value
[1]Standards for Groundwater, if 10,000 mg/L TDS Concentration or Less, New Mexico Administrative Code 20.6.2.3103
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicates analytes above New Mexico Groundwater Quality Standard

**Table 8-1**
**Excavation Confirmation and Stockpile Soil Analytical Results (October 2006)**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Client Sample ID: | Soil Screening Levels | WPOL-SW20 | WPOL-SW21 | WPOL-SW22 | WPOL-SW23A | WPOL-SW23B | WPOL-SW23C |
|---|---|---|---|---|---|---|---|
| Lab Sample ID: | NMED Residential[1] | 680-20904-6 | 680-20904-7 | 680-20904-8 | 680-21196-1 | 680-21196-2 | 680-21196-3 |
| Date Sampled: | | 10/5/2006 | 10/5/2006 | 10/5/2006 | 10/17/2006 | 10/17/2006 | 10/17/2006 |
| | | | | | | | |
| Analyte | | Result | Result | Result | Result | Result | Result |
| **Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| | | | | | | | |
| n-Butylbenzene | 62.1 | 9,100 | ND | 340 J | ND | ND | ND |
| sec-Butylbenzene | 60.6 | 7,900 | 1.7 J | 470 J | ND | ND | ND |
| 1-Chlorohexane | NV | ND | ND | ND | ND | ND | ND |
| Carbon disulfide | 460 | ND | 3.5 J | ND | ND | ND | ND |
| Ethylbenzene | 128 | 2,600 | ND | ND | ND | ND | ND |
| 2-Hexanone | NV | ND | ND | ND | ND | ND | ND |
| Isopropylbenzene | 271 | 2,000 | ND | ND | ND | ND | ND |
| p-Isopropyltoluene | NV | 6,500 | ND | ND | ND | ND | ND |
| Methylene Chloride | 182 | ND | ND | ND | ND | ND | ND |
| Naphthalene | 79.5 | ND | ND | ND | ND | ND | ND |
| N-Propylbenzene | 62.1 | 3,400 | ND | ND | ND | ND | ND |
| 1,2,4-Trimethylbenzene | 58 | ND | ND | ND | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 24.8 | 4,100 | ND | ND | ND | ND | ND |
| m-Xylene & p-Xylene | 82 | ND | ND | ND | ND | ND | ND |
| | | | | | | | |
| **Semi-Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| | | | | | | | |
| Benzo[g,h,i]perylene | NV | ND | ND | ND | ND | ND | ND |
| Fluorene | 2,660 | 170 J | ND | ND | ND | ND | ND |
| 2-Methylnaphthalene | NV | ND | ND | ND | ND | ND | ND |
| Naphthalene | 79.5 | ND | ND | ND | ND | ND | ND |
| | | | | | | | |
| **Total Petroleum Hydrocarbons** | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | | | | | | |
| TPH-GRO (C6-C10) | NV | 1,000 | 0.44 | 34 | ND | ND | ND |
| TPH-DRO (C10-C28) | NV | 3,900 | 4.5 J | 340 | 20 | 3.7 J | ND |
| TPH-ORO (>C20-C36) | NV | ND | ND | ND | ND | ND | ND |
| | | | | | | | |
| **General Chemistry** | % | % | % | % | % | % | % |
| | | | | | | | |
| Percent Moisture | NV | 34 | 29 | 30 | 24 | 23 | 24 |
| Percent Solids | NV | 66 | 71 | 70 | 76 | 77 | 76 |
| | | | | | | | |

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
ND = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
**Bold** value indicates analytes above NMED Soil Screening Levels (Rev 4.0, June 2006)

**Table 8-1**
**Excavation Confirmation and Stockpile Soil Analytical Results (October 2006)**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Client Sample ID: | Soil Screening Levels | WPOL-SW24 | WPOL-SW25 | WPOL-SW26 | WPOL-SW27 | WPOL-SW28 | WPOL-SW29 |
|---|---|---|---|---|---|---|---|
| Lab Sample ID: | NMED | 680-20904-9 | 680-21081-1 | 680-21081-2 | 680-21081-3 | 680-21081-4 | 680-21161-1 |
| Date Sampled: | Residential[1] | 10/5/2006 | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/16/2006 |
| | | | | | | | |
| Analyte | | Result | Result | Result | Result | Result | Result |
| **Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| | | | | | | | |
| n-Butylbenzene | 62.1 | ND | ND | 21,000 | 9,200 | 2,600 | ND |
| sec-Butylbenzene | 60.6 | ND | ND | 10,000 | 4,800 | 1,600 | ND |
| 1-Chlorohexane | NV | ND | ND | ND | ND | 160 J | ND |
| Carbon disulfide | 460 | ND | ND | ND | ND | ND | ND |
| Ethylbenzene | 128 | ND | ND | 4,900 | 2,100 | 330 | ND |
| 2-Hexanone | NV | ND | ND | ND | ND | 1,000 J | ND |
| Isopropylbenzene | 271 | ND | ND | 3,500 | 1,500 | 310 | ND |
| p-Isopropyltoluene | NV | ND | ND | 9,800 | 5,200 | 1,500 | ND |
| Methylene Chloride | 182 | ND | ND | ND | ND | 110 J | ND |
| Naphthalene | 79.5 | ND | ND | 17,000 | 7,600 | 3,700 | ND |
| N-Propylbenzene | 62.1 | ND | ND | 6,900 | 3,000 | 620 | ND |
| 1,2,4-Trimethylbenzene | 58 | ND | ND | 48,000 | 22,000 | 2,200 | ND |
| 1,3,5-Trimethylbenzene | 24.8 | ND | ND | 8,200 | 5,000 | 690 | ND |
| m-Xylene & p-Xylene | 82 | ND | ND | 2,000 J | 860 J | 110 J | ND |
| | | | | | | | |
| **Semi-Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg | µg/kg |
| | | | | | | | |
| Benzo[g,h,i]perylene | NV | ND | 29 J | ND | ND | ND | ND |
| Fluorene | 2,660 | ND | ND | ND | 100 J | ND | ND |
| 2-Methylnaphthalene | NV | ND | ND | 9,000 | 6,700 | 2,800 | ND |
| Naphthalene | 79.5 | ND | ND | 4,000 J | 2,600 | 1,100 | ND |
| | | | | | | | |
| **Total Petroleum Hydrocarbons** | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg |
| | | | | | | | |
| TPH-GRO (C6-C10) | NV | 0.14 J | ND | 830 | 700 | 620 | ND |
| TPH-DRO (C10-C28) | NV | 2.8 J | 20 | 2,800 | 1,800 | 660 | ND |
| TPH-ORO (>C20-C36) | NV | ND | 70 | ND | ND | ND | ND |
| | | | | | | | |
| **General Chemistry** | % | % | % | % | % | % | % |
| | | | | | | | |
| Percent Moisture | NV | 27 | 16 | 31 | 29 | 30 | 30 |
| Percent Solids | NV | 73 | 84 | 69 | 71 | 70 | 70 |
| | | | | | | | |

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
ND = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Table 8-1**
**Excavation Confirmation and Stockpile Soil Analytical Results (October 2006)**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Client Sample ID: | Soil Screening Levels | WPOL-SW30 | WPOL-SW31 | WPOL-STOCKPILE |
|---|---|---|---|---|
| Lab Sample ID: | NMED | 680-21161-2 | 680-21161-3 | 680-20904-11 |
| Date Sampled: | Residential[1] | 10/16/2006 | 10/16/2006 | 10/5/2006 |
| | | | | |
| Analyte | | Result | Result | Result |
| **Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg |
| | | | | |
| n-Butylbenzene | 62.1 | ND | ND | 820 |
| sec-Butylbenzene | 60.6 | ND | ND | 1,000 |
| 1-Chlorohexane | NV | ND | ND | ND |
| Carbon disulfide | 460 | ND | ND | ND |
| Ethylbenzene | 128 | ND | ND | 200 J |
| 2-Hexanone | NV | ND | ND | ND |
| Isopropylbenzene | 271 | ND | ND | 380 J |
| p-Isopropyltoluene | NV | ND | ND | ND |
| Methylene Chloride | 182 | ND | ND | ND |
| Naphthalene | 79.5 | ND | ND | ND |
| N-Propylbenzene | 62.1 | ND | ND | 710 J |
| 1,2,4-Trimethylbenzene | 58 | ND | ND | ND |
| 1,3,5-Trimethylbenzene | 24.8 | ND | ND | 330 J |
| m-Xylene & p-Xylene | 82 | ND | ND | ND |
| | | | | |
| **Semi-Volatile Organic Compounds** | mg/kg | µg/kg | µg/kg | µg/kg |
| | | | | |
| Benzo[g,h,i]perylene | NV | ND | ND | ND |
| Fluorene | 2,660 | ND | ND | ND |
| 2-Methylnaphthalene | NV | ND | ND | ND |
| Naphthalene | 79.5 | ND | ND | ND |
| | | | | |
| **Total Petroleum Hydrocarbons** | mg/kg | mg/kg | mg/kg | mg/kg |
| | | | | |
| TPH-GRO (C6-C10) | NV | ND | ND | 85 |
| TPH-DRO (C10-C28) | NV | ND | ND | 260 |
| TPH-ORO (>C20-C36) | NV | ND | ND | ND |
| | | | | |
| **General Chemistry** | % | % | % | % |
| | | | | |
| Percent Moisture | NV | 28 | 27 | 28 |
| Percent Solids | NV | 72 | 73 | 72 |
| | | | | |

Notes:

NMED = New Mexico Environment Department
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
ND = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | EX01 | EX02 | EX03 | EX04 | EX05 | EX06 | EX07 | EX08 | EX09 | EX09A | EX09B | EX10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/18/2002 | 12/18/2002 | 12/16/2002 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 77.1 | 18 | 2.97 | 0.016 | <0.5 | <0.005 | 15.4 | <0.5 | 0.719 | 0.437 | <0.005 | <0.475 |
| 1,3,5-Trimethylbenzene | 15.3 | 1.67 | 0.624 | <0.005 | <0.5 | <0.005 | 1.92 J | <0.5 | <0.5 | 0.445 | <0.1 | <0.475 |
| 1-Chlorohexane | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| 2-Hexanone | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| Acetone | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| Carbon disulfide | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| Ethylbenzene | 13.4 | 3.04 | 2.19 | 0.052 | <0.5 | <0.005 | 6.73 | <0.5 | 0.398 J | 1.8 | <0.005 | 1.15 |
| Isopropylbenzene | 6.95 | 1.47 | 0.93 | 0.019 | <0.5 | <0.005 | 3.65 | <0.5 | 0.304 J | 1.07 | <0.005 | 0.984 |
| Methyl ethyl ketone | <50 | <9.6 | <10.7 | <0.1 | <10 | <0.1 | <46.4 | <10 | <10 | <10 | <0.005 | <9.5 |
| Methylene chloride | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| Naphthalene | 36.7 | 6.57 | 1.75 | 0.012 | <0.5 | <0.005 | 5.03 | <0.5 | 0.765 | 2.69 | <0.005 | 2.69 |
| n-Butylbenzene | 23.8 | 5.83 | 1.01 | 0.0033 J | <0.5 | <0.005 | 5.3 | <0.5 | 0.491 J | 0.732 | <0.005 | 0.604 |
| n-Propylbenzene | 11.9 | 2.5 | 1.37 | 0.015 | <0.5 | <0.005 | 5.9 | <0.5 | 0.478 J | 1.85 | <0.005 | 1.64 |
| p-Isopropyltoluene | 20.3 | 5.6 | 0.881 | 0.0012 J | <0.5 | <0.005 | 4.42 | <0.5 | 0.417 J | 1.15 | <0.005 | 0.311 J |
| sec-Butylbenzene | 16.2 | 3.63 | 1.16 | 0.01 | <0.5 | <0.005 | 6.24 | <0.5 | 0.618 | 2.21 | <0.005 | 2.14 |
| Tetrachloroethylene | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| o-Xylene | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.5 | <0.005 | NA |
| m,p-Xylene | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.5 | <0.005 | NA |
| Xylenes (total) | 6.78 | 1.48 | 0.35 | <0.014 | <0.5 | <0.005 | 0.533 J | <0.5 | <0.5 | <0.5 | <0.005 | <0.475 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | |
| 2-Methylnaphthalene | 17.1 | 15.1 | 5.66 | <0.999 | <0.999 | <0.999 | 5.63 | <0.999 | 1.02 | 2.64 | 0.624 | 1.49 |
| Benzo[g,h,i]perylene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Dibenzofuran | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Diethyl phthalate | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Fluorene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Naphthalene | 8.02 | 7.05 | 2.54 | <0.999 | <0.999 | <0.999 | 3.94 | <0.999 | 0.426 J | 1.16 | <0.999 | 0.757 J |
| **TPHs (mg/kg)** | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | 925 | 1,950 | 840 | <20 | <20 | <20 | 986 | <20 | 350 | 600 | <20 | 184 |
| TPH-DRO (C10-C22) | 3,600 | 6,190 | 1,000 | <30 | <30 | <30 | 3800 | <30 | 180 | 225 | 36 | 507 |
| TPH-ORO (>C22-C36) | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | EX10D | EX11 | EX11A | EX12 | EX12A | EX13 | EX14 | EX15 | EX16 | EX17 | EX18 | EX18A | EX19 | SB01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/16/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 10/5/2005 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 0.8 -1.7 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.46 | <0.48 | <0.005 | 3.24 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 24.2 | <0.5 | 103 | <0.0072 |
| 1,3,5-Trimethylbenzene | <0.46 | <0.48 | <0.005 | 0.471 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 99.6 | <0.5 | 22.7 | <0.0072 |
| 1-Chlorohexane | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.0072 |
| 2-Hexanone | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.036 |
| Acetone | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.072 |
| Carbon disulfide | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | 0.006 J |
| Ethylbenzene | 0.303 J | 0.143 J | <0.005 | 1.77 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 12.4 | <0.5 | 16 | <0.0072 |
| Isopropylbenzene | 0.273 J | <0.48 | <0.005 | 0.993 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 6.86 | <0.5 | 7.64 | <0.0072 |
| Methyl ethyl ketone | <9.2 | <9.6 | <0.1 | <8.9 | <0.1 | <0.1 | <0.1 | <9 | <0.1 | <0.1 | <47.3 | <0.1 | <45.2 | <0.036 |
| Methylene chloride | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.014 |
| Naphthalene | 0.963 | 0.91 | <0.005 | 3.39 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 46.5 | <0.5 | 45.1 | <0.0072 |
| n-Butylbenzene | <0.46 | 0.336 J | <0.005 | 3.5 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 38.9 | <0.5 | 36.8 | <0.0072 |
| n-Propylbenzene | 0.426 J | 0.147 J | <0.005 | 1.78 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 10.2 | <0.5 | 11.4 | <0.0072 |
| p-Isopropyltoluene | <0.46 | 0.176 J | <0.005 | 1.36 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 29.4 | <0.5 | 31 | <0.0072 |
| sec-Butylbenzene | 0.5 | 0.18 J | <0.005 | 1.99 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 21.6 | <0.5 | <2.26 | <0.0072 |
| Tetrachloroethylene | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.0072 |
| o-Xylene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.5 | NA | <0.0072 |
| m,p-Xylene | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | <0.5 | NA | <0.014 |
| Xylenes (total) | <0.46 | <0.48 | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 12.7 | <0.5 | 17.5 | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 2.33 | 10 | <0.999 | 7.51 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | 31.1 | <0.999 | 43.7 | <0.23 |
| Benzo[g,h,i]perylene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 |
| Dibenzofuran | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 |
| Diethyl phthalate | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.45 |
| Fluorene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 |
| Naphthalene | 1.18 | 4.75 | <0.999 | 3.66 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | 14.5 | <0.999 | 19.5 | <0.23 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | 174 | 612 | <20 | 630 | <20 | <20 | 41 | 175 | <20 | <20 | 7,790 | <20 | 13,900 | <8.6 |
| TPH-DRO (C10-C22) | 528 | 2080 | <30 | 1960 | <30 | <30 | 65 | 147 | <30 | <30 | 23,600 | <30 | 35,000 | <11 |
| TPH-ORO (>C22-C36) | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <50 | <11 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB01 | SB01 | SB03 | SB03 | SB03 | SB04 | SB04 | SB04 | SB05 | SB05 | SB05 | SB06 | SB06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 |
| Depth (ft bgs) | 2.8 - 3.1 | 5.6 - 6 | 0.8 - 1.1 | 2.7 - 3.3 | 5.1 - 5.8 | 0.3 - 0.8 | 2.0 - 2.8 | 5.2 - 5.8 | 0.3 - 0.8 | 3.2 - 3.9 | 5 - 5.5 | 2.3 - 3.3 | 0.3 - 1 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 0.0128 | 0.854 | <0.0072 | <0.0073 | 0.0491 | <0.0068 | <0.0056 | 0.0047 J | 0.158 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| 1,3,5-Trimethylbenzene | <0.0071 | <0.46 | <0.0072 | <0.0073 | 0.0042 J | <0.0068 | <0.0056 | <0.0061 | 0.0541 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| 1-Chlorohexane | <0.0071 | <0.46 | <0.0072 | <0.0073 | <0.007 | <0.0068 | <0.0056 | <0.0061 | <0.007 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| 2-Hexanone | <0.035 | <2.3 | <0.036 | <0.037 | <0.035 | <0.034 | <0.028 | <0.0061 | <0.035 | <0.031 | <0.033 | <0.033 | <0.038 |
| Acetone | <0.071 | <4.6 | <0.0072 | <0.073 | <0.7 | <0.068 | <0.056 | <0.0061 | 0.0381 J | <0.062 | <0.066 | <0.067 | <0.076 |
| Carbon disulfide | <0.0071 | <0.46 | <0.0072 | 0.0039 J | 0.008 | <0.0068 | <0.0056 | 0.0058 J | 0.0061 J | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| Ethylbenzene | <0.0071 | 0.809 | <0.0072 | <0.0073 | 0.0286 | <0.0068 | <0.0056 | 0.0094 | 0.0452 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| Isopropylbenzene | <0.0071 | 0.765 | <0.0072 | <0.0073 | 0.0065 J | <0.0068 | <0.0056 | 0.013 | 0.0332 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| Methyl ethyl ketone | <0.035 | <2.3 | <0.036 | <0.037 | 0.0353 J | <0.034 | <0.028 | <0.0061 | <0.035 | <0.031 | <0.033 | <0.033 | <0.038 |
| Methylene chloride | <0.014 | <0.93 | <0.014 | <0.015 | <0.014 | <0.014 | <0.011 | <0.0061 | <0.014 | <0.012 | <0.013 | <0.013 | <0.015 |
| Naphthalene | 0.022 B | 0.609 B | 0.0066 JB | 0.0074 B | 0.056 | <0.0068 | <0.0056 | 0.0032 J | 0.109 B | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| n-Butylbenzene | 0.0069 J | 2.01 | <0.0072 | <0.0073 | 0.005 J | <0.0068 | <0.0056 | <0.0061 | 0.0306 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| n-Propylbenzene | 0.0029 J | 1.23 | <0.0072 | <0.0073 | 0.0078 | <0.0068 | <0.0056 | 0.0114 | 0.0455 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| p-Isopropyltoluene | <0.0071 | 0.753 | <0.0072 | <0.0073 | 0.0034 J | <0.0068 | <0.0056 | <0.0061 | 0.0269 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| sec-Butylbenzene | 0.008 | 1.75 | <0.0072 | 0.0137 | 0.0049 J | <0.0068 | <0.0056 | 0.0574 | 0.0401 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| Tetrachloroethylene | <0.0071 | <0.46 | <0.0072 | <0.0073 | <0.007 | <0.0068 | <0.0056 | <0.0061 | <0.007 | <0.0062 | <0.0066 | <0.0067 | 0.0426 |
| o-Xylene | <0.0071 | <0.46 | <0.0072 | <0.0073 | <0.007 | <0.0068 | <0.0056 | <0.0061 | <0.007 | <0.0062 | <0.0066 | <0.0067 | <0.0076 |
| m,p-Xylene | <0.014 | <0.93 | <0.014 | <0.015 | 0.0163 | <0.014 | <0.011 | <0.012 | 0.0054 J | <0.012 | <0.013 | <0.013 | <0.015 |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.22 | 0.415 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 |
| Benzo[g,h,i]perylene | <0.22 | <0.24 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 |
| Dibenzofuran | <0.22 | 0.0933 J | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 |
| Diethyl phthalate | <0.45 | <0.48 | 0.712 | <0.48 | <0.45 | 1.15 | <0.45 | <0.45 | <0.44 | <0.43 | <0.45 | <0.46 | <0.49 |
| Fluorene | <0.22 | <0.24 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 |
| Naphthalene | <0.22 | 0.131 J | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <8.7 | 167 | <9.2 | <9.5 | <9.1 | <8.1 | <8.3 | 16.5 | 10.8 | <8.3 | <8.3 | <9.2 | <9.9 |
| TPH-DRO (C10-C22) | <11 | 81.4 | 8.24 J | <12 | <11 | <11 | <11 | 41.0 | 43.7 | <11 | <11 | <12 | <12 |
| TPH-ORO (>C22-C36) | <11 | <24 | 7.93 J | <12 | <11 | <11 | <11 | <11 | <11 | <11 | <11 | <12 | <12 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB06 | SB07 | SB07 | SB07 | SB08 | SB08 | SB08 | SB09 | SB09 | SB09 | SB10 | SB10 | SB10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 5.2 - 5.8 | 0.3 - 0.8 | 0.8 - 1.7 | 4.3 - 4.7 | 0.3 - 0.7 | 2.8 - 3.3 | 5 - 5.7 | 0.3 - 1.3 | 2.8 - 3.6 | 5.3 - 5.9 | 2.5 - 2.8 | 4.7 - 5.2 | 7.8 - 8.7 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0068 | <0.0069 | <0.0068 | 0.532 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| 1,3,5-Trimethylbenzene | <0.0068 | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| 1-Chlorohexane | <0.0068 | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| 2-Hexanone | <0.034 | <0.035 | <0.034 | <2 | <0.032 | <0.028 | <0.034 | <0.033 | <0.023 | <0.034 | <0.034 | <0.0072 | <0.04 |
| Acetone | <0.068 | <0.069 | <0.68 | <3.9 | <0.065 | <0.056 | <0.068 | <0.067 | <0.046 | <0.068 | <0.069 | <0.036 | <0.08 |
| Carbon disulfide | 0.0045 J | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| Ethylbenzene | <0.0068 | <0.0069 | <0.0068 | 0.99 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0446 | <0.0069 | <0.0072 | <0.008 |
| Isopropylbenzene | <0.0068 | <0.0069 | <0.0068 | 1.41 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0289 | <0.0069 | <0.0072 | <0.008 |
| Methyl ethyl ketone | <0.034 | <0.035 | <0.034 | <2 | <0.032 | <0.028 | <0.034 | <0.033 | <0.023 | <0.034 | <0.034 | <0.036 | <0.04 |
| Methylene chloride | <0.014 | <0.014 | <0.014 | <0.78 | <0.013 | <0.011 | <0.014 | 0.0238 | 0.0122 | 0.0184 | 0.0217 | 0.0188 | 0.0164 |
| Naphthalene | <0.0068 | <0.0069 | 0.0043 JB | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | 0.0023 JB | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| n-Butylbenzene | <0.0068 | <0.0069 | <0.0068 | 1.87 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| n-Propylbenzene | <0.0068 | <0.0069 | <0.0068 | 2.44 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0148 | <0.0069 | <0.0072 | <0.008 |
| p-Isopropyltoluene | <0.0068 | <0.0069 | <0.0068 | 0.711 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| sec-Butylbenzene | <0.0068 | <0.0069 | <0.0068 | 3.43 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0542 | <0.0069 | <0.0072 | <0.008 |
| Tetrachloroethylene | <0.0068 | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| o-Xylene | <0.0068 | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 |
| m,p-Xylene | <0.014 | <0.014 | <0.014 | <0.78 | <0.013 | <0.011 | <0.014 | <0.013 | <0.0093 | <0.014 | <0.014 | <0.014 | <0.016 |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.23 | <0.23 | <0.23 | <0.22 | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 |
| Benzo[g,h,i]perylene | <0.23 | <0.23 | <0.23 | <0.22 | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 |
| Dibenzofuran | <0.23 | <0.23 | <0.23 | 0.159 J | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 |
| Diethyl phthalate | <0.46 | <0.47 | <0.47 | <0.43 | <0.42 | <0.43 | <0.44 | <0.43 | <0.44 | <0.44 | <0.42 | <0.44 | <0.48 |
| Fluorene | <0.23 | <0.23 | <0.23 | 0.0535 J | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 |
| Naphthalene | <0.23 | <0.23 | <0.23 | <0.22 | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <8.8 | <8.9 | <9.2 | 319 | <8 | <7.9 | <7.9 | <8.4 | <8.4 | 15.2 | <8.1 | <8.2 | <8.2 |
| TPH-DRO (C10-C22) | <12 | <12 | 7.5 J | 528 | <11 | <11 | <11 | <11 | <11 | 116 | <10 | <11 | <12 |
| TPH-ORO (>C22-C36) | <12 | <12 | <12 | 110 | <11 | <11 | <11 | <11 | <11 | <22 | <10 | <11 | <12 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB11 | SB11 | SB11 | SB12 | SB12 | SB12 | SB13 | SB13 | SB13 | SB14 | SB14 | SB14 | SB15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 0 - 0.5 | 2.8 - 3.1 | 4.5 - 6.7 | 0.3 - 0.9 | 2.7 - 3.4 | 5.1 - 5.8 | 0.3 - 1.6 | 2.3 - 2.9 | 5 - 5.7 | 0.3 - 0.9 | 2.8 - 3.3 | 4.8 - 5.5 | 0.3 - 1.1 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| 1,3,5-Trimethylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| 1-Chlorohexane | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| 2-Hexanone | <0.033 | <0.031 | <0.033 | <0.03 | <0.031 | <0.036 | <0.039 | <0.031 | <0.035 | <0.031 | <0.033 | <0.03 | <0.033 |
| Acetone | <0.066 | <0.063 | <0.065 | <0.059 | <0.061 | <0.072 | <0.078 | <0.063 | <0.07 | <0.061 | <0.065 | <0.06 | <0.067 |
| Carbon disulfide | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0059 J | <0.0061 | <0.0065 | 0.0049 J | <0.0067 |
| Ethylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| Isopropylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0042 J | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| Methyl ethyl ketone | <0.033 | <0.031 | <0.033 | <0.03 | <0.031 | <0.036 | <0.039 | <0.031 | <0.035 | <0.031 | <0.033 | <0.03 | <0.033 |
| Methylene chloride | 0.0206 | 0.0109 J | 0.0132 | 0.0106 J | 0.0081 J | <0.014 | 0.0224 | 0.0168 | 0.0164 | 0.0115 J | 0.015 | 0.0126 | 0.0128 J |
| Naphthalene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| n-Butylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| n-Propylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| p-Isopropyltoluene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| sec-Butylbenzene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0357 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| Tetrachloroethylene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| o-Xylene | <0.0066 | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 |
| m,p-Xylene | <0.013 | <0.013 | <0.013 | <0.012 | <0.012 | <0.014 | <0.076 | <0.013 | <0.014 | <0.012 | <0.013 | <0.012 | <0.013 |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.21 | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 |
| Benzo[g,h,i]perylene | <0.21 | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 |
| Dibenzofuran | <0.21 | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 |
| Diethyl phthalate | <0.42 | <0.42 | <0.43 | <0.45 | <0.47 | <0.46 | <0.48 | <0.43 | <0.48 | <0.43 | <0.42 | <0.47 | <0.45 |
| Fluorene | <0.21 | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 |
| Naphthalene | <0.21 | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <7.5 | <9 | <6.1 | <7.6 | <10 | <10 | <9.7 | <8.1 | 11.2 | 3.61 J | <7.8 | <8.1 | <8.6 |
| TPH-DRO (C10-C22) | <11 | <11 | <11 | <11 | <12 | <12 | <12 | <11 | 18.8 | 31.7 | <11 | <12 | <11 |
| TPH-ORO (>C22-C36) | 7.71 J | <11 | <11 | <11 | <12 | <12 | <12 | <11 | <12 | <11 | <11 | <12 | <11 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB15 | SB15 | SB15FD | SB16 | SB16 | SB16 | SB17 | SB17FD | SB17 | SB17FD | SB17 | SB17FD | SB18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 |
| Depth (ft bgs) | 1.8 - 3.4 | 5.6 - 7.4 | 5.6 - 7.4 | 0.3 - 0.8 | 2.7 - 3.1 | 4.8 - 5.6 | 0.3 - 0.9 | 0.3 - 0.9 | 2.6 - 3.2 | 2.6 - 3.2 | 5.0 - 5.6 | 5.0 - 5.6 | 0.3 - 0.8 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| 1,3,5-Trimethylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| 1-Chlorohexane | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| 2-Hexanone | <0.037 | <0.036 | <0.033 | <0.028 | <0.027 | <0.023 | <0.026 | <0.029 | <0.025 | <0.034 | <0.03 | <0.03 | <0.029 |
| Acetone | <0.075 | <0.072 | <0.067 | <0.055 | <0.054 | <0.046 | <0.052 | <0.058 | <0.049 | <0.068 | <0.06 | <0.061 | <0.057 |
| Carbon disulfide | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| Ethylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| Isopropylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| Methyl ethyl ketone | <0.037 | <0.036 | <0.033 | <0.028 | <0.027 | <0.023 | <0.026 | <0.029 | <0.025 | <0.034 | <0.03 | <0.03 | <0.029 |
| Methylene chloride | 0.0107 J | 0.0222 | 0.0188 | <0.011 | <0.011 | <0.0091 | <0.01 | <0.012 | <0.0098 | <0.014 | <0.012 | <0.012 | <0.011 |
| Naphthalene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| n-Butylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| n-Propylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| p-Isopropyltoluene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| sec-Butylbenzene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| Tetrachloroethylene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| o-Xylene | <0.0075 | <0.0072 | <0.0067 | <0.0055 | <0.0054 | <0.0046 | <0.0052 | <0.0058 | <0.0049 | <0.0068 | <0.006 | <0.0061 | <0.0057 |
| m,p-Xylene | <0.015 | <0.014 | <0.013 | <0.011 | <0.011 | <0.0091 | <0.01 | <0.012 | <0.0098 | <0.014 | <0.012 | <0.012 | <0.011 |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.23 | <0.22 | <0.23 | <0.19 | <0.19 | <0.2 | <0.19 | <0.21 | <0.19 | <0.24 | <0.2 | <0.23 | <0.21 |
| Benzo[g,h,i]perylene | <0.23 | <0.22 | <0.23 | <0.19 | <0.19 | <0.2 | <0.19 | <0.21 | <0.19 | <0.24 | <0.2 | <0.23 | <0.21 |
| Dibenzofuran | <0.23 | <0.22 | <0.23 | <0.19 | <0.19 | <0.2 | <0.19 | <0.21 | <0.19 | <0.24 | <0.2 | <0.23 | <0.21 |
| Diethyl phthalate | <0.45 | <0.45 | <0.46 | <0.38 | <0.39 | <0.4 | 0.120 J | <0.42 | <0.39 | 0.128 J | <0.4 | <0.46 | 1 |
| Fluorene | <0.23 | <0.22 | <0.23 | <0.19 | <0.19 | <0.2 | <0.19 | <0.21 | <0.19 | <0.24 | <0.2 | <0.23 | <0.21 |
| Naphthalene | <0.23 | <0.22 | <0.23 | <0.19 | <0.19 | <0.2 | <0.19 | <0.21 | <0.19 | <0.24 | <0.2 | <0.23 | <0.21 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <8.8 | <8.5 | <8.6 | <6.8 | <6.5 | <6.5 | <6.5 | <8.2 | <5.9 | <9.4 | <7.7 | <9.4 | <7 |
| TPH-DRO (C10-C22) | <11 | <11 | <11 | <9.6 | <9.5 | <9.9 | <9.4 | <10 | <9.8 | <12 | <9.9 | <11 | <10 |
| TPH-ORO (>C22-C36) | <11 | <11 | <11 | <9.6 | <9.5 | <9.9 | <9.4 | 15.6 | <9.8 | <12 | <9.9 | <11 | 8.41 J |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB18 | SB18 | SB19 | SB19FD | SB19 | SB19FD | SB19 | SB19FD | SB20 | SB20 | SB20 | SB21 | SB21FD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 |
| Depth (ft bgs) | 2.6 - 3.2 | 5.1 - 5.7 | 0.3 - 1 | 0.3 - 1 | 2.4 - 3.4 | 2.4 - 3.4 | 4.7 - 6 | 4.7 - 6 | 0.3 - 0.8 | 2.5 - 3.3 | 5.2 - 5.8 | 0.6 - 1 | 0.6 - 1 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | 0.0104 | 0.0039 J |
| 1,3,5-Trimethylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | 0.0092 | 0.0034 J |
| 1-Chlorohexane | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| 2-Hexanone | <0.031 | <0.031 | <0.029 | <0.03 | <0.03 | <0.027 | <0.035 | <0.028 | <0.033 | <0.03 | <0.036 | <0.025 | <0.025 |
| Acetone | <0.061 | <0.062 | <0.058 | <0.061 | <0.061 | <0.055 | <0.071 | <0.056 | <0.066 | <0.06 | <0.073 | <0.051 | <0.05 |
| Carbon disulfide | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| Ethylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| Isopropylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| Methyl ethyl ketone | <0.031 | <0.031 | <0.029 | <0.03 | <0.03 | <0.027 | <0.035 | <0.028 | <0.033 | <0.03 | <0.036 | <0.025 | <0.025 |
| Methylene chloride | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.011 | <0.014 | <0.011 | <0.013 | <0.012 | <0.015 | <0.01 | <0.01 |
| Naphthalene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | 0.0033 JB | <0.005 |
| n-Butylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| n-Propylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| p-Isopropyltoluene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| sec-Butylbenzene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| Tetrachloroethylene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| o-Xylene | <0.0061 | <0.0062 | <0.0058 | <0.0061 | <0.0061 | <0.0055 | <0.0071 | <0.0056 | <0.0066 | <0.006 | <0.0073 | <0.0051 | <0.005 |
| m,p-Xylene | <0.012 | <0.012 | <0.012 | <0.012 | <0.012 | <0.011 | <0.014 | <0.011 | <0.013 | <0.012 | <0.015 | <0.01 | <0.01 |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.23 | <0.23 | <0.2 | <0.2 | <0.22 | <0.22 | <0.23 | <0.23 | <0.22 | <0.23 | <0.23 | <0.2 | <0.19 |
| Benzo[g,h,i]perylene | <0.23 | <0.23 | <0.2 | <0.2 | <0.22 | <0.22 | <0.23 | <0.23 | <0.22 | <0.23 | <0.23 | <0.2 | <0.19 |
| Dibenzofuran | <0.23 | <0.23 | <0.2 | <0.2 | <0.22 | <0.22 | <0.23 | <0.23 | <0.22 | <0.23 | <0.23 | <0.2 | <0.19 |
| Diethyl phthalate | <0.46 | <0.46 | <0.41 | <0.39 | 0.693 | <0.44 | <0.46 | <0.46 | <0.44 | <0.45 | <0.46 | <0.4 | <0.39 |
| Fluorene | <0.23 | <0.23 | <0.2 | <0.2 | <0.22 | <0.22 | <0.23 | <0.23 | <0.22 | <0.23 | <0.23 | <0.2 | <0.19 |
| Naphthalene | <0.23 | <0.23 | <0.2 | <0.2 | <0.22 | <0.22 | <0.23 | <0.23 | <0.22 | <0.23 | <0.23 | <0.2 | <0.19 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <8.6 | <10 | <7 | <6.7 | <7.8 | <7.9 | <8 | <7 | <8 | <7.9 | <8.1 | 14.2 | 5.61 J |
| TPH-DRO (C10-C22) | <11 | <11 | <10 | <9.9 | <11 | <11 | <12 | 16.7 | <11 | <11 | <11 | 8.4 J | 58.0 |
| TPH-ORO (>C22-C36) | <11 | <11 | <10 | <9.9 | <11 | <11 | <12 | 12.4 | <11 | <11 | <11 | <9.8 | <9.8 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SB21 | SB21FD | SB21 | SB21FD | SW20 | SW21 | SW22 | SW23A | SW23B | SW23C | SW24 | SW25 | SW26 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/5/2006 | 10/5/2006 | 10/5/2006 | 10/17/2006 | 10/17/2006 | 10/17/2006 | 10/5/2006 | 10/12/2006 | 10/12/2006 |
| Depth (ft bgs) | 2.7 - 3.1 | 2.7 - 3.1 | 5.2 - 5.8 | 5.2 - 5.8 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 48 |
| 1,3,5-Trimethylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 4.1 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 8.2 |
| 1-Chlorohexane | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | <1.6 |
| 2-Hexanone | <0.025 | <0.031 | <0.034 | <0.029 | <8.9 | <0.029 | <3.3 | <0.028 | <0.031 | <0.0055 | <0.025 | <0.029 | <8 |
| Acetone | <0.05 | <0.062 | <0.067 | <0.059 | <18 | <0.058 | <6.6 | <0.056 | <0.061 | <0.055 | <0.049 | <0.057 | <16 |
| Carbon disulfide | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | 0.0035 J | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | <1.6 |
| Ethylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 2.6 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 4.9 |
| Isopropylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 2 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 3.5 |
| Methyl ethyl ketone | <0.025 | <0.031 | <0.034 | <0.029 | <8.9 | <0.029 | <3.3 | <0.028 | <0.031 | <0.028 | <0.025 | <0.029 | <8 |
| Methylene chloride | <0.01 | <0.012 | <0.013 | <0.012 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | <1.6 |
| Naphthalene | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 17 |
| n-Butylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 9.1 | <0.0058 | 0.34 J | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 21 |
| n-Propylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 3.4 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 6.9 |
| p-Isopropyltoluene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 6.5 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 9.8 |
| sec-Butylbenzene | <0.005 | <0.0062 | <0.0067 | <0.0059 | 7.9 | 0.0017 J | 0.47 J | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | 10 |
| Tetrachloroethylene | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | <1.6 |
| o-Xylene | <0.005 | <0.0062 | <0.0067 | <0.0059 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 | <0.0057 | <1.6 |
| m,p-Xylene | <0.01 | <0.012 | <0.013 | <0.012 | <3.5 | <0.012 | <1.3 | <0.011 | <0.012 | <0.011 | <0.0099 | <0.011 | 2 J |
| Xylenes (total) | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.21 | <0.21 | <0.22 | <0.24 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | <0.39 | 9 |
| Benzo[g,h,i]perylene | <0.21 | <0.21 | <0.22 | <0.24 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | 0.029 J | <4.8 |
| Dibenzofuran | <0.21 | <0.21 | <0.22 | <0.24 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | <0.39 | <4.8 |
| Diethyl phthalate | <0.42 | <0.43 | <0.45 | <0.49 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | <0.39 | <4.8 |
| Fluorene | <0.21 | <0.21 | <0.22 | <0.24 | 0.17 J | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | <0.39 | <4.8 |
| Naphthalene | <0.21 | <0.21 | <0.22 | <0.24 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 | <0.39 | 4 J |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH-GRO (C6-C10) | <7.1 | <7.9 | <8.8 | <9.7 | 1,000 | 0.44 | 34 | <0.32 | <0.29 | <0.25 | 0.14 J | <0.25 | 830 |
| TPH-DRO (C10-C22) | <11 | <11 | <11 | <12 | 3,900 | 4.5 J | 340 | 20 | 3.7 J | <4.3 | 2.8 J | 20 | 2,800 |
| TPH-ORO (>C22-C36) | <11 | <11 | <11 | <12 | <260 | <24 | <24 | <22 | <22 | <22 | <23 | 70 | <250 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(a)
## Soil Analytical Results for Chemicals Detected At Least Once
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Sample ID | SW27 | SW28 | SW29 | SW30 | SW31 |
|---|---|---|---|---|---|
| Date Sampled | 10/12/2006 | 10/12/2006 | 10/16/2006 | 10/16/2006 | 10/16/2006 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | |
| 1,2,4-Trimethylbenzene | 22 | 2.2 | <0.0066 | <0.0056 | <0.0074 |
| 1,3,5-Trimethylbenzene | 5 | 0.69 | <0.0066 | <0.0056 | <0.0074 |
| 1-Chlorohexane | <0.75 | 0.16 J | <0.0066 | <0.0056 | <0.0074 |
| 2-Hexanone | <3.8 | 1 J | <0.033 | <0.028 | <0.037 |
| Acetone | <7.5 | <2.7 | <0.066 | <0.056 | <0.074 |
| Carbon disulfide | <0.75 | <0.27 | <0.0066 | <0.0056 | <0.0074 |
| Ethylbenzene | 2.1 | 0.33 | <0.0066 | <0.0056 | <0.0074 |
| Isopropylbenzene | 1.5 | 0.31 | <0.0066 | <0.0056 | <0.0074 |
| Methyl ethyl ketone | <3.8 | <1.3 | <0.033 | <0.028 | <0.037 |
| Methylene chloride | <0.75 | 0.11 J | <0.0066 | <0.0056 | <0.0074 |
| Naphthalene | 7.6 | 3.7 | <0.0066 | <0.0056 | <0.0074 |
| n-Butylbenzene | 9.2 | 2.6 | <0.0066 | <0.0056 | <0.0074 |
| n-Propylbenzene | 3 | 0.62 | <0.0066 | <0.0056 | <0.0074 |
| p-Isopropyltoluene | 5.2 | 1.5 | <0.0066 | <0.0056 | <0.0074 |
| sec-Butylbenzene | 4.8 | 1.6 | <0.0066 | <0.0056 | <0.0074 |
| Tetrachloroethylene | <0.75 | <0.27 | <0.0066 | <0.0056 | <0.0074 |
| o-Xylene | <0.75 | <0.27 | <0.0066 | <0.0056 | <0.0074 |
| m,p-Xylene | 0.86 J | 0.11 J | <0.013 | <0.011 | <0.015 |
| Xylenes (total) | NA | NA | NA | NA | NA |
| **SVOCs (mg/kg)** | | | | | |
| 2-Methylnaphthalene | 6.7 | 2.8 | <0.47 | <0.46 | <0.45 |
| Benzo[g,h,i]perylene | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Dibenzofuran | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Diethyl phthalate | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Fluorene | 0.1 J | <0.47 | <0.47 | <0.46 | <0.45 |
| Naphthalene | 2.6 | 1.1 | <0.47 | <0.46 | <0.45 |
| **TPHs (mg/kg)** | | | | | |
| TPH-GRO (C6-C10) | 700 | 620 | <0.41 | <0.32 | <0.31 |
| TPH-DRO (C10-C22) | 1,800 | 660 | <4.7 | <4.6 | <4.5 |
| TPH-ORO (>C22-C36) | <240 | <48 | <24 | <24 | <23 |

Notes:
B=Indicates analyte found in associated method blank
ft bgs=Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
NA = Not available
GRO = Gasoline Range Organics
DRO = Diesel Range Organics
ORO = Oil Range Organics
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | EX01 | EX02 | EX03 | EX04 | EX05 | EX06 | EX07 | EX08 | EX09 | EX09A | EX09B | EX10 (Avg) | EX11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/18/2002 | 12/18/2002 | 12/16/2002 | 12/16/2002 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 77.1 | 18 | 2.97 | 0.016 | <0.5 | <0.005 | 15.4 | <0.5 | 0.719 | 0.437 | <0.005 | <0.4675 | <0.48 |
| 1,3,5-Trimethylbenzene | 15.3 | 1.67 | 0.624 | <0.005 | <0.5 | <0.005 | 1.92 J | <0.5 | <0.5 | 0.445 | <0.1 | <0.4675 | <0.48 |
| 1-Chlorohexane | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| 2-Hexanone | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| Acetone | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| Carbon disulfide | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| Ethylbenzene | 13.4 | 3.04 | 2.19 | 0.052 | <0.5 | <0.005 | 6.73 | <0.5 | 0.398 J | 1.8 | <0.005 | 0.7265 | 0.143 J |
| Isopropylbenzene | 6.95 | 1.47 | 0.93 | 0.019 | <0.5 | <0.005 | 3.65 | <0.5 | 0.304 J | 1.07 | <0.005 | 0.6285 | <0.48 |
| Methyl ethyl ketone | <50 | <9.6 | <10.7 | <0.1 | <10 | <0.1 | <46.4 | <10 | <10 | <10 | <0.005 | <9.35 | <9.6 |
| Methylene chloride | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| Naphthalene | 22.36 | 6.81 | 2.145 | 0.25575 | <0.5 | <0.005 | 4.485 | <0.5 | 0.5955 | 1.925 | <0.005 | 1.3975 | 2.83 |
| n-Butylbenzene | 23.8 | 5.83 | 1.01 | 0.0033 J | <0.5 | <0.005 | 5.3 | <0.5 | 0.491 J | 0.732 | <0.005 | 0.417 | 0.336 J |
| n-Propylbenzene | 11.9 | 2.5 | 1.37 | 0.015 | <0.5 | <0.005 | 5.9 | <0.5 | 0.478 J | 1.85 | <0.005 | 1.033 | 0.147 J |
| p-Isopropyltoluene | 20.3 | 5.6 | 0.881 | 0.012 | <0.5 | <0.005 | 4.42 | <0.5 | 0.417 J | 1.15 | <0.005 | 0.2705 | 0.176 J |
| sec-Butylbenzene | 16.2 | 3.63 | 1.16 | 0.01 | <0.5 | <0.005 | 6.24 | <0.5 | 0.618 | 2.21 | <0.005 | 1.32 | 0.18 J |
| Tetrachloroethylene | <2.5 | <0.48 | <0.535 | <0.005 | <0.5 | <0.005 | <2.32 | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| Xylenes (total) | 6.78 | 1.48 | 0.35 | <0.014 | <0.5 | <0.005 | 0.533 J | <0.5 | <0.5 | <0.5 | <0.005 | <0.4675 | <0.48 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 17.1 | 15.1 | 5.66 | <0.999 | <0.999 | <0.999 | 5.63 | <0.999 | 1.02 | 2.64 | 0.624 | 1.91 | 10 |
| Benzo[g,h,i]perylene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Dibenzofuran | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Diethyl phthalate | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| Fluorene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | 3,625 | 6,215 | 1,025 | <40 | <40 | <40 | 3,825 | <40 | 205 | 250 | 61 | 542.5 | 2,105 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | EX11A | EX12 | EX12A | EX13 | EX14 | EX15 | EX16 | EX17 | EX18 | EX18A | EX19 | SB01 | SB01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/26/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 10/5/2005 | 10/5/2005 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 0.8 -1.7 | 2.8 - 3.1 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.005 | 3.24 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 24.2 | <0.5 | 103 | <0.0072 | 0.0128 |
| 1,3,5-Trimethylbenzene | <0.005 | 0.471 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 99.6 | <0.5 | 22.7 | <0.0072 | <0.0071 |
| 1-Chlorohexane | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.0072 | <0.0071 |
| 2-Hexanone | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.036 | <0.035 |
| Acetone | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.072 | <0.071 |
| Carbon disulfide | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | 0.006 J | <0.0071 |
| Ethylbenzene | <0.005 | 1.77 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 12.4 | <0.5 | 16 | <0.0072 | <0.0071 |
| Isopropylbenzene | <0.005 | 0.993 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 6.86 | <0.5 | 7.64 | <0.0072 | <0.0071 |
| Methyl ethyl ketone | <0.1 | <8.9 | <0.1 | <0.1 | <0.1 | <9 | <0.1 | <0.1 | <47.3 | <0.1 | <45.2 | <0.036 | <0.035 |
| Methylene chloride | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.014 | <0.014 |
| Naphthalene | <0.005 | 3.525 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 30.5 | <0.5 | 32.3 | <0.0072 | 0.066 |
| n-Butylbenzene | <0.005 | 3.5 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 38.9 | <0.5 | 36.8 | <0.0072 | 0.0069 J |
| n-Propylbenzene | <0.005 | 1.78 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 10.2 | <0.5 | 11.4 | <0.0072 | 0.0029 J |
| p-Isopropyltoluene | <0.005 | 1.36 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 29.4 | <0.5 | 31 | <0.0072 | <0.0071 |
| sec-Butylbenzene | <0.005 | 1.99 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 21.6 | <0.5 | <2.26 | <0.0072 | 0.008 |
| Tetrachloroethylene | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | <2.365 | <0.5 | <2.26 | <0.0072 | <0.0071 |
| Xylenes (total) | <0.005 | <0.445 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 12.7 | <0.5 | 17.5 | <0.0212 | <0.0211 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.999 | 7.51 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | 31.1 | <0.999 | 43.7 | <0.23 | <0.22 |
| Benzo[g,h,i]perylene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 | <0.22 |
| Dibenzofuran | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 | <0.22 |
| Diethyl phthalate | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.45 | <0.45 |
| Fluorene | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.999 | <0.23 | <0.22 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | <40 | 1,985 | <40 | <40 | 90 | 172 | <40 | <40 | 23,625 | <40 | 35,025 | <11 | <11 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB01 | SB03 | SB03 | SB03 | SB04 | SB04 | SB04 | SB05 | SB05 | SB05 | SB06 | SB06 | SB06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 |
| Depth (ft bgs) | 5.6 - 6 | 0.8 - 1.1 | 2.7 - 3.3 | 5.1 - 5.8 | 0.3 - 0.8 | 2.0 - 2.8 | 5.2 - 5.8 | 0.3 - 0.8 | 3.2 - 3.9 | 5 - 5.5 | 2.3 - 3.3 | 0.3 - 1 | 5.2 - 5.8 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 0.854 | <0.0072 | <0.0073 | 0.0491 | <0.0068 | <0.0056 | 0.0047 J | 0.158 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| 1,3,5-Trimethylbenzene | <0.46 | <0.0072 | <0.0073 | 0.0042 J | <0.0068 | <0.0056 | <0.0061 | 0.0541 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| 1-Chlorohexane | <0.46 | <0.0072 | <0.0073 | <0.007 | <0.0068 | <0.0056 | <0.0061 | <0.007 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| 2-Hexanone | <2.3 | <0.036 | <0.037 | <0.035 | <0.034 | <0.028 | <0.0061 | <0.035 | <0.031 | <0.033 | <0.033 | <0.038 | <0.034 |
| Acetone | <4.6 | <0.0072 | <0.073 | <0.7 | <0.068 | <0.056 | <0.0061 | 0.0381 J | <0.062 | <0.066 | <0.067 | <0.076 | <0.068 |
| Carbon disulfide | <0.46 | <0.0072 | 0.0039 J | 0.008 | <0.0068 | <0.0056 | 0.0058 J | 0.0061 J | <0.0062 | <0.0066 | <0.0067 | <0.0076 | 0.0045 J |
| Ethylbenzene | 0.809 | <0.0072 | <0.0073 | 0.0286 | <0.0068 | <0.0056 | 0.0094 | 0.0452 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| Isopropylbenzene | 0.765 | <0.0072 | <0.0073 | 0.0065 J | <0.0068 | <0.0056 | 0.013 | 0.0332 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| Methyl ethyl ketone | <2.3 | <0.036 | <0.037 | 0.0353 J | <0.034 | <0.028 | <0.0061 | <0.035 | <0.031 | <0.033 | <0.033 | <0.038 | <0.034 |
| Methylene chloride | <0.93 | <0.014 | <0.015 | <0.014 | <0.014 | <0.011 | <0.0061 | <0.014 | <0.012 | <0.013 | <0.013 | <0.015 | <0.014 |
| Naphthalene | 0.37 | 0.0608 | 0.0637 | 0.083 | <0.0068 | <0.0056 | 0.0566 | 0.1095 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| n-Butylbenzene | 2.01 | <0.0072 | <0.0073 | 0.005 J | <0.0068 | <0.0056 | <0.0061 | 0.0306 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| n-Propylbenzene | 1.23 | <0.0072 | <0.0073 | 0.0078 | <0.0068 | <0.0056 | 0.0114 | 0.0455 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| p-Isopropyltoluene | 0.753 | <0.0072 | <0.0073 | 0.0034 J | <0.0068 | <0.0056 | <0.0061 | 0.0269 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| sec-Butylbenzene | 1.75 | <0.0072 | 0.0137 | 0.0049 J | <0.0068 | <0.0056 | 0.0574 | 0.0401 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| Tetrachloroethylene | <0.46 | <0.0072 | <0.0073 | <0.007 | <0.0068 | <0.0056 | <0.0061 | <0.007 | <0.0062 | <0.0066 | <0.0067 | 0.0426 | <0.0068 |
| Xylenes (total) | <1.39 | <0.0212 | <0.0223 | 0.0198 | <0.0208 | <0.0166 | <0.0181 | 0.0089 | <0.0182 | <0.0196 | <0.0197 | <0.0226 | <0.0208 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | 0.415 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 | <0.23 |
| Benzo[g,h,i]perylene | <0.24 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 | <0.23 |
| Dibenzofuran | 0.0933 J | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 | <0.23 |
| Diethyl phthalate | <0.48 | 0.712 | <0.48 | <0.45 | 1.15 | <0.45 | <0.45 | <0.44 | <0.43 | <0.45 | <0.46 | <0.49 | <0.46 |
| Fluorene | <0.24 | <0.23 | <0.24 | <0.22 | <0.22 | <0.23 | <0.22 | <0.22 | <0.22 | <0.22 | <0.23 | <0.25 | <0.23 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | 93.4 | 16.17 | <12 | <11 | <11 | <11 | 46.5 | 49.2 | <11 | <11 | <12 | <12 | <12 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB07 | SB07 | SB07 | SB08 | SB08 | SB08 | SB09 | SB09 | SB09 | SB10 | SB10 | SB10 | SB11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 0.3 - 0.8 | 0.8 - 1.7 | 4.3 - 4.7 | 0.3 - 0.7 | 2.8 - 3.3 | 5 - 5.7 | 0.3 - 1.3 | 2.8 - 3.6 | 5.3 - 5.9 | 2.5 - 2.8 | 4.7 - 5.2 | 7.8 - 8.7 | 0 - 0.5 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0069 | <0.0068 | 0.532 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| 1,3,5-Trimethylbenzene | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| 1-Chlorohexane | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| 2-Hexanone | <0.035 | <0.034 | <2 | <0.032 | <0.028 | <0.034 | <0.033 | <0.023 | <0.034 | <0.034 | <0.0072 | <0.04 | <0.033 |
| Acetone | <0.069 | <0.68 | <3.9 | <0.065 | <0.056 | <0.068 | <0.067 | <0.046 | <0.068 | <0.069 | <0.036 | <0.08 | <0.066 |
| Carbon disulfide | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| Ethylbenzene | <0.0069 | <0.0068 | 0.99 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0446 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| Isopropylbenzene | <0.0069 | <0.0068 | 1.41 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0289 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| Methyl ethyl ketone | <0.035 | <0.034 | <2 | <0.032 | <0.028 | <0.034 | <0.033 | <0.023 | <0.034 | <0.034 | <0.036 | <0.04 | <0.033 |
| Methylene chloride | <0.014 | <0.014 | <0.78 | <0.013 | <0.011 | <0.014 | 0.0238 | 0.0122 | 0.0184 | 0.0217 | 0.0188 | 0.0164 | 0.0206 |
| Naphthalene | <0.0069 | 0.05965 | <0.22 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | 0.05615 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| n-Butylbenzene | <0.0069 | <0.0068 | 1.87 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| n-Propylbenzene | <0.0069 | <0.0068 | 2.44 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0148 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| p-Isopropyltoluene | <0.0069 | <0.0068 | 0.711 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| sec-Butylbenzene | <0.0069 | <0.0068 | 3.43 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | 0.0542 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| Tetrachloroethylene | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| Xylenes (total) | <0.0209 | <0.0208 | <1.17 | <0.0195 | <0.0166 | <0.0208 | <0.0197 | <0.0139 | <0.0208 | <0.0209 | <0.0212 | <0.024 | <0.0196 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.23 | <0.23 | <0.22 | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 | <0.21 |
| Benzo[g,h,i]perylene | <0.23 | <0.23 | <0.22 | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 | <0.21 |
| Dibenzofuran | <0.23 | <0.23 | 0.159 J | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 | <0.21 |
| Diethyl phthalate | <0.47 | <0.47 | <0.43 | <0.42 | <0.43 | <0.44 | <0.43 | <0.44 | <0.44 | <0.42 | <0.44 | <0.48 | <0.42 |
| Fluorene | <0.23 | <0.23 | 0.0535 J | <0.21 | <0.22 | <0.22 | <0.22 | <0.22 | <0.22 | <0.21 | <0.22 | <0.24 | <0.21 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | <12 | 13.5 | 583 | <11 | <11 | <11 | <11 | <11 | 127 | <10 | <11 | <12 | 13.21 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB11 | SB11 | SB12 | SB12 | SB12 | SB13 | SB13 | SB13 | SB14 | SB14 | SB14 | SB15 | SB15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 2.8 - 3.1 | 4.5 - 6.7 | 0.3 - 0.9 | 2.7 - 3.4 | 5.1 - 5.8 | 0.3 - 1.6 | 2.3 - 2.9 | 5 - 5.7 | 0.3 - 0.9 | 2.8 - 3.3 | 4.8 - 5.5 | 0.3 - 1.1 | 1.8 - 3.4 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| 1,3,5-Trimethylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| 1-Chlorohexane | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| 2-Hexanone | <0.031 | <0.033 | <0.03 | <0.031 | <0.036 | <0.039 | <0.031 | <0.035 | <0.031 | <0.033 | <0.03 | <0.033 | <0.037 |
| Acetone | <0.063 | <0.065 | <0.059 | <0.061 | <0.072 | <0.078 | <0.063 | <0.07 | <0.061 | <0.065 | <0.06 | <0.067 | <0.075 |
| Carbon disulfide | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0059 J | <0.0061 | <0.0065 | 0.0049 J | <0.0067 | <0.0075 |
| Ethylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| Isopropylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0042 J | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| Methyl ethyl ketone | <0.031 | <0.033 | <0.03 | <0.031 | <0.036 | <0.039 | <0.031 | <0.035 | <0.031 | <0.033 | <0.03 | <0.033 | <0.037 |
| Methylene chloride | 0.0109 J | 0.0132 | 0.0106 J | 0.0081 J | <0.014 | 0.0224 | 0.0168 | 0.0164 | 0.0115 J | 0.015 | 0.0126 | 0.0128 J | 0.0107 J |
| Naphthalene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| n-Butylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| n-Propylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| p-Isopropyltoluene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| sec-Butylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | 0.0357 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| Tetrachloroethylene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| Xylenes (total) | <0.0193 | <0.0195 | <0.0179 | <0.0181 | <0.0212 | <0.0838 | <0.0193 | <0.021 | <0.0181 | <0.0195 | <0.018 | <0.0197 | <0.0225 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 | <0.23 |
| Benzo[g,h,i]perylene | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 | <0.23 |
| Dibenzofuran | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 | <0.23 |
| Diethyl phthalate | <0.42 | <0.43 | <0.45 | <0.47 | <0.46 | <0.48 | <0.43 | <0.48 | <0.43 | <0.42 | <0.47 | <0.45 | <0.45 |
| Fluorene | <0.21 | <0.22 | <0.22 | <0.23 | <0.23 | <0.24 | <0.21 | <0.24 | <0.21 | <0.21 | <0.23 | <0.23 | <0.23 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | <11 | <11 | <11 | <12 | <12 | <12 | <11 | 24.8 | 37.2 | <11 | <12 | <11 | <11 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB15 (Avg) | SB16 | SB16 | SB16 | SB17 (Avg) | SB17 (Avg) | SB17 (Avg) | SB18 | SB18 | SB18 | SB19 (Avg) | SB19 (Avg) | SB19 (Avg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 |
| Depth (ft bgs) | 5.6 - 7.4 | 0.3 - 0.8 | 2.7 - 3.1 | 4.8 - 5.6 | 0.3 - 0.9 | 2.6 - 3.2 | 5.0 - 5.6 | 0.3 - 0.8 | 2.6 - 3.2 | 5.1 - 5.7 | 0.3 - 1 | 2.4 - 3.4 | 4.7 - 6 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| 1,3,5-Trimethylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| 1-Chlorohexane | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| 2-Hexanone | <0.0345 | <0.028 | <0.027 | <0.023 | <0.0275 | <0.0295 | <0.03 | <0.029 | <0.031 | <0.031 | <0.0295 | <0.0285 | <0.0315 |
| Acetone | <0.0695 | <0.055 | <0.054 | <0.046 | <0.055 | <0.0585 | <0.0605 | <0.057 | <0.061 | <0.062 | <0.0595 | <0.058 | <0.0635 |
| Carbon disulfide | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| Ethylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| Isopropylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| Methyl ethyl ketone | <0.0345 | <0.028 | <0.027 | <0.023 | <0.0275 | <0.0295 | <0.03 | <0.029 | <0.031 | <0.031 | <0.0295 | <0.0285 | <0.0315 |
| Methylene chloride | 0.0205 | <0.011 | <0.011 | <0.0091 | <0.011 | <0.0119 | <0.012 | <0.011 | <0.012 | <0.012 | <0.012 | <0.0115 | <0.0125 |
| Naphthalene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| n-Butylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| n-Propylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| p-Isopropyltoluene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| sec-Butylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| Tetrachloroethylene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| Xylenes (total) | <0.02045 | <0.0165 | <0.0164 | <0.0137 | <0.0165 | <0.01775 | <0.01805 | <0.0167 | <0.0181 | <0.0182 | <0.01795 | <0.0173 | <0.01885 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.225 | <0.19 | <0.19 | <0.2 | <0.2 | <0.215 | <0.215 | <0.21 | <0.23 | <0.23 | <0.2 | <0.22 | <0.23 |
| Benzo[g,h,i]perylene | <0.225 | <0.19 | <0.19 | <0.2 | <0.2 | <0.215 | <0.215 | <0.21 | <0.23 | <0.23 | <0.2 | <0.22 | <0.23 |
| Dibenzofuran | <0.225 | <0.19 | <0.19 | <0.2 | <0.2 | <0.215 | <0.215 | <0.21 | <0.23 | <0.23 | <0.2 | <0.22 | <0.23 |
| Diethyl phthalate | <0.455 | <0.38 | <0.39 | <0.4 | 0.165 | 0.1615 | <0.43 | 1 | <0.46 | <0.46 | <0.4 | 0.4565 | <0.46 |
| Fluorene | <0.225 | <0.19 | <0.19 | <0.2 | <0.2 | <0.215 | <0.215 | <0.21 | <0.23 | <0.23 | <0.2 | <0.22 | <0.23 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | <11 | <9.6 | <9.5 | <9.9 | 12.65 | <10.9 | <10.45 | 13.41 | <11 | <11 | <9.95 | <11 | 17.55 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB20 | SB20 | SB20 | SB21 (Avg) | SB21 (Avg) | SB21 (Avg) | SW20 | SW21 | SW22 | SW23A | SW23B | SW23C | SW24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/5/2006 | 10/5/2006 | 10/5/2006 | 10/17/2006 | 10/17/2006 | 10/17/2006 | 10/5/2006 |
| Depth (ft bgs) | 0.3 - 0.8 | 2.5 - 3.3 | 5.2 - 5.8 | 0.6 - 1 | 2.7 - 3.1 | 5.2 - 5.8 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0066 | <0.006 | <0.0073 | 0.00715 | <0.0056 | <0.0063 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| 1,3,5-Trimethylbenzene | <0.0066 | <0.006 | <0.0073 | 0.0063 | <0.0056 | <0.0063 | 4.1 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| 1-Chlorohexane | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| 2-Hexanone | <0.033 | <0.03 | <0.036 | <0.025 | <0.028 | <0.0315 | <8.9 | <0.029 | <3.3 | <0.028 | <0.031 | <0.0055 | <0.025 |
| Acetone | <0.066 | <0.06 | <0.073 | <0.0505 | <0.056 | <0.063 | <18 | <0.058 | <6.6 | <0.056 | <0.061 | <0.055 | <0.049 |
| Carbon disulfide | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | <1.8 | 0.0035 J | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Ethylbenzene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 2.6 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Isopropylbenzene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 2 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Methyl ethyl ketone | <0.033 | <0.03 | <0.036 | <0.025 | <0.028 | <0.0315 | <8.9 | <0.029 | <3.3 | <0.028 | <0.031 | <0.028 | <0.025 |
| Methylene chloride | <0.013 | <0.012 | <0.015 | <0.01 | <0.011 | <0.0125 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Naphthalene | <0.0066 | <0.006 | <0.0073 | 0.027075 | <0.0056 | <0.0063 | <0.5 | <0.0058 | <0.47 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| n-Butylbenzene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 9.1 | <0.0058 | 0.34 J | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| n-Propylbenzene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 3.4 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| p-Isopropyltoluene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 6.5 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| sec-Butylbenzene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | 7.9 | 0.0017 J | 0.47 J | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Tetrachloroethylene | <0.0066 | <0.006 | <0.0073 | <0.00505 | <0.0056 | <0.0063 | <1.8 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| Xylenes (total) | <0.0196 | <0.018 | <0.0223 | <0.01505 | <0.0166 | <0.0188 | <5.3 | <0.0178 | <1.96 | <0.0166 | <0.0181 | <0.0165 | <0.0148 |
| **SVOCs (mg/kg)** | | | | | | | | | | | | | |
| 2-Methylnaphthalene | <0.22 | <0.23 | <0.23 | <0.195 | <0.21 | <0.23 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 |
| Benzo[g,h,i]perylene | <0.22 | <0.23 | <0.23 | <0.195 | <0.21 | <0.23 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 |
| Dibenzofuran | <0.22 | <0.23 | <0.23 | <0.195 | <0.21 | <0.23 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 |
| Diethyl phthalate | <0.44 | <0.45 | <0.46 | <0.395 | <0.425 | <0.47 | <0.5 | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 |
| Fluorene | <0.22 | <0.23 | <0.23 | <0.195 | <0.21 | <0.23 | 0.17 J | <0.46 | <0.47 | <0.43 | <0.43 | <0.44 | <0.45 |
| **TPHs (mg/kg)** | | | | | | | | | | | | | |
| TPH (C10-C36) | <11 | <11 | <11 | 38.1 | <11 | <11.5 | 4,030 | 16.5 | 352 | 31 | 14.7 | <13.15 | 14.3 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

**Table 8-2(b)**
**Soil Analytical Results Used for Risk Assessment**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SW25 | SW26 | SW27 | SW28 | SW29 | SW30 | SW31 |
|---|---|---|---|---|---|---|---|
| Date Sampled | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/16/2006 | 10/16/2006 | 10/16/2006 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| **VOCs (mg/kg)** | | | | | | | |
| 1,2,4-Trimethylbenzene | <0.0057 | 48 | 22 | 2.2 | <0.0066 | <0.0056 | <0.0074 |
| 1,3,5-Trimethylbenzene | <0.0057 | 8.2 | 5 | 0.69 | <0.0066 | | <0.0074 |
| 1-Chlorohexane | <0.0057 | <1.6 | <0.75 | 0.16 J | <0.0066 | <0.0056 | <0.0074 |
| 2-Hexanone | <0.029 | <8 | <3.8 | 1 J | <0.033 | <0.028 | <0.037 |
| Acetone | <0.057 | <16 | <7.5 | <2.7 | <0.066 | <0.056 | <0.074 |
| Carbon disulfide | <0.0057 | <1.6 | <0.75 | <0.27 | <0.0066 | <0.0056 | <0.0074 |
| Ethylbenzene | <0.0057 | 4.9 | 2.1 | 0.33 | <0.0066 | <0.0056 | <0.0074 |
| Isopropylbenzene | <0.0057 | 3.5 | 1.5 | 0.31 | <0.0066 | <0.0056 | <0.0074 |
| Methyl ethyl ketone | <0.029 | <8 | <3.8 | <1.3 | <0.033 | <0.028 | <0.037 |
| Methylene chloride | <0.0057 | <1.6 | <0.75 | 0.11 J | <0.0066 | <0.0056 | <0.0074 |
| Naphthalene | <0.0057 | 10.5 | 5.1 | 2.4 | <0.0066 | <0.0056 | <0.0074 |
| n-Butylbenzene | <0.0057 | 21 | 9.2 | 2.6 | <0.0066 | <0.0056 | <0.0074 |
| n-Propylbenzene | <0.0057 | 6.9 | 3 | 0.62 | <0.0066 | <0.0056 | <0.0074 |
| p-Isopropyltoluene | <0.0057 | 9.8 | 5.2 | 1.5 | <0.0066 | <0.0056 | <0.0074 |
| sec-Butylbenzene | <0.0057 | 10 | 4.8 | 1.6 | <0.0066 | <0.0056 | <0.0074 |
| Tetrachloroethylene | <0.0057 | <1.6 | <0.75 | <0.27 | <0.0066 | <0.0056 | <0.0074 |
| Xylenes (total) | <0.0167 | 2.8 | 1.235 | 0.245 | <0.0196 | <0.0166 | <0.0224 |
| **SVOCs (mg/kg)** | | | | | | | |
| 2-Methylnaphthalene | <0.39 | 9 | 6.7 | 2.8 | <0.47 | <0.46 | <0.45 |
| Benzo[g,h,i]perylene | 0.029 J | <4.8 | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Dibenzofuran | <0.39 | <4.8 | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Diethyl phthalate | <0.39 | <4.8 | <0.47 | <0.47 | <0.47 | <0.46 | <0.45 |
| Fluorene | <0.39 | <4.8 | 0.1 J | <0.47 | <0.47 | <0.46 | <0.45 |
| **TPHs (mg/kg)** | | | | | | | |
| TPH (C10-C36) | 90 | 2,925 | 1,920 | 684 | <14.35 | <14.3 | <13.75 |

Notes:
B = Indicates analyte found in associated method blank
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
VOCs=Volatile Organic Compounds
SVOCs=Semi-volatile Organic Compounds
TPH=Total Petroleum Hydrocarbons

## Table 8-2(c)
## Summary of Soil Data
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Chemical | Number of Samples | Number of Detects | Detected Concentration | | Detection Limit | |
|---|---|---|---|---|---|---|
| | | | Maximum | Minimum | Maximum | Minimum |
| | | | (mg/kg) | | | |
| 1,2,4-Trimethylbenzene | 98 | 20 | 103 | 0.0047 | 1.8 | 0.0046 |
| 1,3,5-Trimethylbenzene | 98 | 15 | 99.6 | 0.0042 | 0.66 | 0.0046 |
| 1-Chlorohexane | 98 | 1 | 0.16 | 0.16 | 2.5 | 0.0046 |
| 2-Hexanone | 98 | 1 | 1 | 1 | 8.9 | 0.005 |
| Acetone | 98 | 1 | 0.381 | 0.381 | 18 | 0.005 |
| Carbon disulfide | 98 | 9 | 0.008 | 0.0035 | 2.5 | 0.0046 |
| Ethylbenzene | 98 | 22 | 16 | 0.0094 | 0.66 | 0.0046 |
| Isopropylbenzene | 98 | 22 | 7.64 | 0.0065 | 0.66 | 0.0046 |
| Methyl ethyl ketone | 98 | 1 | 0.0353 | 0.0353 | 50 | 0.005 |
| Methylene chloride | 98 | 21 | 0.11 | 0.0081 | 2.5 | 0.0049 |
| Naphthalene | 98 | 25 | 32.3 | 0.027075 | 0.5 | 0.0046 |
| n-Butylbenzene | 98 | 22 | 38.9 | 0.0033 | 0.5 | 0.0046 |
| n-Propylbenzene | 98 | 23 | 11.9 | 0.0029 | 0.66 | 0.0046 |
| p-Isopropyltoluene | 98 | 20 | 31 | 0.0034 | 0.66 | 0.0046 |
| sec-Butylbenzene | 98 | 26 | 21.6 | 0.0017 | 0.5 | 0.0046 |
| Tetrachloroethylene | 98 | 1 | 0.0426 | 0.0426 | 2.5 | 0.0046 |
| Xylenes (total) | 98 | 11 | 17.5 | 0.0089 | 5.3 | 0.005 |
| 2-Methylnaphthalene | 98 | 16 | 43.7 | 0.415 | 0.999 | 0.19 |
| Benzo[g,h,i]perylene | 98 | 1 | 0.029 | 0.029 | 4.8 | 0.19 |
| Dibenzofuran | 98 | 2 | 0.159 | 0.0933 | 4.8 | 0.19 |
| Diethyl phthalate | 98 | 6 | 1.15 | 0.1615 | 4.8 | 0.38 |
| Fluorene | 98 | 3 | 0.17 | 0.0535 | 4.8 | 0.19 |
| TPH (C10-C36) | 98 | 38 | 35025 | 12.65 | 40 | 9.5 |

Notes:
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

## Table 8-3(a)
## Groundwater Analytical Results for Chemicals Detected At Least Once
## West POL Yard, Holloman Air Force Base, New Mexico

| Sample ID | MW01 | MW02 | MW03 | MW04-a | MW04 |
|---|---|---|---|---|---|
| Date Sampled | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18/2007 | 4/18 - 24/2007 |
| **Volatile Organic Compounds (VOCs) (mg/L)** | | | | | |
| Acetone | <0.005 | <0.005 | <0.005 | <0.005 | 0.0287 |
| n-Butylbenzene | <0.0005 | <0.0005 | 0.0016 | 0.0014 | <0.0005 |
| sec-Butylbenzene | <0.0005 | <0.0005 | 0.0091 | 0.0088 | <0.0005 |
| tert-Butylbenzene | <0.0005 | <0.0005 | 0.00067 J | 0.00064 J | <0.0005 |
| Isopropylbenzene | <0.0005 | <0.0005 | 0.0023 | 0.0022 | <0.0005 |
| Methyl ethyl ketone | <0.0025 | <0.0025 | <0.0025 | <0.0025 | 0.009 |
| Naphthalene | <0.001 | <0.001 | 0.0016 J | 0.0012 J | <0.001 |
| n-Propylbenzene | <0.0005 | <0.0005 | 0.00056 J | 0.00052 J | <0.0005 |
| **Semi-volatile Organic Compounds (SVOCs) (mg/L)** | | | | | |
| Dibenzofuran | <0.001 | <0.00098 | <0.001 | 0.0011 J | <0.0014 |
| **Total Petroleum Hydrocarbons (TPHs) (mg/L)** | | | | | |
| TPH DRO (C10-C22) | <0.1 | <0.1 | 1 | 0.988 | 0.0975 J |
| TPH ORO (>C22-C36) | 0.11 J | 0.164 J | 0.605 | 0.634 | 0.152 J |

Notes:
J = Indicates an estimated value
mg/L = Milligrams per liter
DRO = Diesel Range Organics
ORO = Oil Range Organics

## Table 8-3(b)
## Groundwater Analytical Results Used for Risk Assessment
## West POL Yard, Holloman Air Force Base, New Mexico

| Sample ID | MW01 | MW02 | MW03 | MW04 (Avg) |
|---|---|---|---|---|
| **Date Sampled** | **4/18/2007** | **4/18/2007** | **4/18/2007** | **4/18 - 24/2007** |
| **Volatile Organic Compounds (VOCs) (mg/L)** | | | | |
| Acetone | <0.005 | <0.005 | <0.005 | 0.0156 |
| n-Butylbenzene | <0.0005 | <0.0005 | 0.0016 | 0.000825 |
| sec-Butylbenzene | <0.0005 | <0.0005 | 0.0091 | 0.004525 |
| tert-Butylbenzene | <0.0005 | <0.0005 | 0.00067 J | 0.000445 |
| Isopropylbenzene | <0.0005 | <0.0005 | 0.0023 | 0.001225 |
| Methyl ethyl ketone | <0.0025 | <0.0025 | <0.0025 | 0.005125 |
| Naphthalene | <0.001 | <0.001 | 0.0016 J | 0.00085 |
| n-Propylbenzene | <0.0005 | <0.0005 | 0.00056 J | 0.000385 |
| **Semi-volatile Organic Compounds (SVOCs) (mg/L)** | | | | |
| Dibenzofuran | <0.001 | <0.00098 | <0.001 | 0.0009 |
| **Total Petroleum Hydrocarbons (TPH) (mg/L)** | | | | |
| TPH (C10-C36) | 0.16 | 0.214 | 1.605 | 0.93575 |

Notes:
J = Indicates an estimated value
mg/L = Milligrams per liter

## Table 8-3(c)
## Summary of Groundwater Data
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Chemical | Number of Samples | Number of Detects | Detected Concentration | | Detection Limit | |
|---|---|---|---|---|---|---|
| | | | Maximum | Minimum | Maximum | Minimum |
| | | | (mg/L) | | | |
| Acetone | 4 | 1 | 0.0156 | 0.0156 | 0.005 | 0.005 |
| n-Butylbenzene | 4 | 2 | 0.0016 | 0.000825 | 0.0005 | 0.0005 |
| sec-Butylbenzene | 4 | 2 | 0.0091 | 0.004525 | 0.0005 | 0.0005 |
| tert-Butylbenzene | 4 | 2 | 0.00067 | 0.000445 | 0.0005 | 0.0005 |
| Isopropylbenzene | 4 | 2 | 0.0023 | 0.001225 | 0.0005 | 0.0005 |
| Methyl ethyl ketone | 4 | 1 | 0.005125 | 0.005125 | 0.0025 | 0.0025 |
| Naphthalene | 4 | 2 | 0.0016 | 0.00085 | 0.001 | 0.001 |
| n-Propylbenzene | 4 | 2 | 0.00056 | 0.000385 | 0.0005 | 0.0005 |
| Dibenzofuran | 4 | 1 | 0.0009 | 0.0009 | 0.001 | 0.00098 |
| TPH (C10-C36) | 4 | 4 | 1.605 | 0.16 | N/A | N/A |

Notes:
mg/L = Milligrams per liter
N/A = Not applicable
TPH = Total Petroleum Hydrocarbons

## Table 8-4
## Chemicals of Potential Concern
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Chemicals | Soil | Groundwater |
|---|---|---|
| 1,2,4-Trimethylbenzene | D | ND |
| 1,3,5-Trimethylbenzene | D | ND |
| 1-Chlorohexane | D | ND |
| 2-Hexanone | D | ND |
| Acetone | D | D |
| Carbon disulfide | D | ND |
| Ethylbenzene | D | ND |
| Isopropylbenzene | D | D |
| Methyl ethyl ketone | D | D |
| Methylene chloride | D | ND |
| Naphthalene | D | D |
| n-Butylbenzene | D | D |
| n-Propylbenzene | D | D |
| p-Isopropyltoluene | D | ND |
| sec-Butylbenzene | D | D |
| tert-Butylbenzene | ND | D |
| Tetrachloroethylene | D | ND |
| Xylenes (total) | D | ND |
| 2-Methylnaphthalene | D | ND |
| Benzo[g,h,i]perylene | D | ND |
| Dibenzofuran | D | D |
| Diethyl phthalate | D | ND |
| Fluorene | D | ND |
| TPH (C10-C36) | D | D |
| **Total Detected** | **23** | **10** |

Notes:
D = Detected
ND = Not detected
TPH = Total Petroleum Hydrocarbons

## Table 8-5(a)
## Exposure Model for Current and Future Commercial/Industrial Worker
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| No. | Exposure Pathway | C/NC | Justification |
|---|---|---|---|
| **1** | **Dermal contact with surficial soil** | **C** | **Surficial soil has been impacted. Therefore, this exposure pathway is complete.** |
| **2** | **Ingestion of surficial soil** | **C** | **Surficial soil has been impacted. Therefore, this exposure pathway is complete.** |
| **3** | **Outdoor inhalation of vapors or particulates from surficial soil** | **C** | **Vapors from surficial soil may migrate upwards through the ground surface and into the ambient air. Therefore, this exposure pathway is complete.** |
| 4 | Indoor inhalation of vapors from subsurface soil | NC | Currently, there is no building on-site. In the future, it is unlikely that a building may be built on-site. Therefore, this pathway is not complete. |
| **5** | **Outdoor inhalation of vapors from subsurface soil** | **C** | **Vapors from subsurface soil may migrate upwards through the vadose zone and into the ambient air through cracks in the pavement. Therefore, this pathway is complete.** |
| 6 | Indoor inhalation of vapors from groundwater | NC | Currently, there is no building on-site. In the future, it is unlikely that a building may be built on-site. Therefore, this pathway is not complete. |
| **7** | **Outdoor inhalation of vapors from groundwater** | **C** | **Vapors from groundwater may migrate upwards through the vadose zone and into the ambient air through cracks in the pavement. Therefore, this pathway is complete.** |
| 8 | Ingestion of groundwater | NC | The facility receives water from Lake Bonito. Therefore, this exposure pathway is not complete. |
| 9 | Dermal contact with groundwater | NC | The facility receives water from the Lake Bonito. Therefore, this exposure pathway is not complete. |

Notes:
C: Complete
NC: Not complete
Pathways shown in bold will be quantitatively evaluated.
Surficial soil is assumed to be soil in 0 – 2 feet below ground surface (ft bgs).
Subsurface soil is assumed to be soil between 2 ft bgs and the groundwater table.

## Table 8-5(b)
## Exposure Model for Future Construction Worker
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| No. | Exposure Pathway | C/NC | Justification |
|---|---|---|---|
| 1 | **Dermal contact with soil to depth of construction** | C | **Soil is impacted at the site. Therefore, this pathway is complete.** |
| 2 | **Ingestion of soil to depth of construction** | C | **Soil is impacted at the site. Therefore, this pathway is complete.** |
| 3 | **Outdoor inhalation of vapors or particulates from soil to depth of construction** | C | **Soil is impacted at the site. Therefore, this pathway is complete.** |
| 4 | Indoor inhalation of vapors from soil | NC | Typically construction would not be expected to occur indoors over an extended period of time. Therefore, this pathway is not complete. |
| 5 | Indoor inhalation of vapors from groundwater | NC | Typically construction would not be expected to occur indoors over an extended period of time. Therefore, this pathway is not complete. |
| 6 | **Dermal contact with groundwater** | C | **Depth to groundwater is approximately 6.5 ft bgs which is above the anticipated depth of construction. Therefore, this pathway is complete.** |
| 7 | **Outdoor inhalation of vapors from groundwater** | C | **Vapors from groundwater may migrate upwards through the vadose zone and into the ambient air through cracks in the pavement. Therefore, this pathway is complete.** |

Notes:
C: Complete
NC: Not complete
Pathways shown in bold will be quantitatively evaluated.
Soil to depth of construction is assumed to be soil in 0 - 10 feet below ground surface.

**Table 8-6**
**Target Levels**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| COPCs | Combined Pathways from Surficial Soil by Commercial/Industrial Worker (mg/kg) | | Outdoor Inhalation of Vapors from Subsurface Soil by Commercial/Industrial Worker (mg/kg) | | Outdoor Inhalation of Vapors from Groundwater by Commercial/Industrial Worker (mg/L) | | Combined Pathways from Soil by Construction Worker (mg/kg) | | Dermal Contact with Groundwater by Construction Worker (mg/L) | | Outdoor Inhalation of Vapors from Groundwater by Construction Worker (mg/L) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Target Level | Source | Target Level | Source | Target Level | Source | Target Level | Source | Target Level | Source | Target Level | Source |
| 1,2,4-Trimethylbenzene | 213 | 1 | NOC | 4 | -- | | 190 | 1 | -- | | -- | |
| 1,3,5-Trimethylbenzene | 69.2 | 1 | NOC | 4 | -- | | 69.2 | 1 | -- | | -- | |
| 1-Chlorohexane | 87.5 | 3 | NOC | 4 | -- | | 87.5 | 3 | -- | | -- | |
| 2-Hexanone | 217 | 3 | 964 | 4 | -- | | 193 | 3 | -- | | -- | |
| Acetone | 100,000 | 1 | NOC | 4 | NOC | 4 | 98,500 | 1 | 36,900 | 5 | NOC | 4 |
| Carbon disulfide | 460 | 1 | NOC | 4 | -- | | 460 | 1 | -- | | -- | |
| Ethylbenzene | 128 | 1 | NOC | 4 | -- | | 128 | 1 | -- | | -- | |
| Isopropylbenzene | 389 | 1 | 184 | 4 | NOC | 4 | 389 | 1 | 12,600 | 5 | NOC | 4 |
| Methyl ethyl ketone | 48,700 | 1 | NOC | 4 | NOC | 4 | 48,700 | 1 | 12,600 | 5 | NOC | 4 |
| Methylene chloride | 490 | 1 | 404 | 4 | -- | | 2,630 | 1 | -- | | -- | |
| Naphthalene | 300 | 1 | NOC | 4 | NOC | 4 | 262 | 1 | 6.44 | 5 | NOC | 4 |
| n-Butylbenzene | 62.1 | 1 | NOC | 4 | NOC | 4 | 62.1 | 1 | 0.744 | 5 | NOC | 4 |
| n-Propylbenzene | 62.1 | 1 | NOC | 4 | NOC | 4 | 62.1 | 1 | 1.64 | 5 | NOC | 4 |
| p-Isopropyltoluene | 62.6 | 3 | NOC | 4 | -- | | 62.6 | 3 | -- | | -- | |
| sec-Butylbenzene | 60.6 | 1 | NOC | 4 | NOC | 4 | 60.6 | 1 | 1.01 | 5 | NOC | 4 |
| tert-Butylbenzene | -- | | -- | | NOC | 4 | -- | | 0.879 | 5 | NOC | 4 |
| Tetrachloroethylene | 31.6 | 1 | 32.5 | 4 | -- | | 134 | 1 | -- | | -- | |
| Xylenes (total) | 82 | 1 | NOC | 4 | -- | | 82 | 1 | -- | | -- | |
| 2-Methylnaphthalene | 167 | 3 | NA | 4 | -- | | 167 | 3 | -- | | -- | |
| Benzo[g,h,i]perylene | 18,300 | 3 | N/A | | -- | | 6,680 | 3 | -- | | -- | |
| Dibenzofuran | 1,620 | 1 | N/A | | N/A | | 552 | 1 | 0.303 | 5 | N/A | |
| Diethyl phthalate | 100,000 | 1 | N/A | | -- | | 100,000 | 1 | -- | | -- | |
| Fluorene | 26,500 | 1 | N/A | | -- | | 10,200 | 1 | -- | | -- | |
| TPH (C10-C36) | 2,850* | 2 | NA** | | NA** | | 2,850* | 2 | NA** | | NA** | |

Notes:
* = Soil target level for TPH is averaged TPH values of all the petroleum products in the NMED TPH Screening Guidelines, Table 2b (NMED, 2006b). Average value for industrial direct exposure was used.
** = Target levels were not developed since individual compounds are evaluated.
-- = Not chemical of potential concern
N/A = For outdoor inhalation pathways, not applicable since chemical is not volatile.
NA = Not available
NOC = Not a concern since the calculated target level exceeds the saturated soil concentration or the water solubility.
Sources:
1: NMED, 2006a. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
2: NMED, 2006b. New Mexico Environment Department TPH Screening Guidelines.
3: Target levels developed using the methodology in the NMED, 2006a.
4: Target levels developed using the methodology in the ASTM, 1995.
5: Target levels developed using the methodology in the USEPA, 2004a.

**Table 8-7**
**Toxicity and Physical/Chemical Parameters Used for Calculating Target Levels for Soil**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| COPC | Slope Factor | | Reference Dose | | Skin Absorption Factor (ABS) | Water Solubility (S) | Henry's Law Constant (H) | Org. Carbon Adsorption Coeff. ($K_{oc}$) | Molecular Diffusion Coefficient | | Molecular Weight (MW) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Inhalation ($SF_i$) | Ingestion ($SF_o$) | Inhalation ($RfD_i$) | Ingestion ($RfD_o$) | | | | | in air ($D^a$) | in water ($D^w$) | |
| | [kg-day/mg] | [kg-day/mg] | [mg/kg-day] | [mg/kg-day] | [unitless] | [mg/L] | [L-water/L-air] | [$cm^3$/g] | [$cm^2$/s] | [$cm^2$/s] | [g/g-mol] |
| 1-Chlorohexane | NA | NA | 2.86E-01 | 4.00E-02 | NA | 5.38E+01 | 9.98E-01 | 8.91E+02 | 6.40E-02 | 7.27E-06 | 1.21E+02 |
| 2-Hexanone | NA | NA | 1.14E-03 | 6.00E-02 | NA | 1.79E+04 | 3.38E-03 | 1.78E+01 | 6.96E-02 | 7.75E-06 | 1.00E+02 |
| p-Isopropyltoluene | NA | NA | 8.57E-02 | 1.00E-01 | NA | 1.71E+01 | 4.66E-01 | 2.29E+03 | 5.72E-02 | 6.73E-06 | 1.34E+02 |
| 2-Methylnaphthalene | NA | NA | NA | 4.00E-03 | 1.30E-01 | 2.54E+01 | 1.85E-02 | 4.27E+03 | 6.29E-02 | 7.20E-06 | 1.42E+02 |
| Benzo[g,h,i]perylene | NA | NA | NA | 3.00E-02 | 1.30E-01 | 2.60E-04 | 5.82E-06 | 1.58E+06 | 4.90E-02 | 5.65E-05 | 2.76E+02 |

Note:
NA = Not available
Source:
TCEQ, 2007. Table for Texas Risk Reduction Program Rule.

## Table 8-8(a)
## Toxicity and Physical/Chemical Parameters Used for Calculating Target Levels for Outdoor Inhalation of Vapors from Subsurface Soil and Groundwater
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| COPC | Inhalation Slope Factor (SFi) | Inhalation Reference Dose (RfDi) | Water Solubility (S) | Henry's Law Constant (H) | Org. Carbon Adsorption Coeff. ($K_{oc}$) | Molecular Diffusion Coefficient | | Molecular Weight (MW) |
|---|---|---|---|---|---|---|---|---|
| | | | | | | in air ($D_a$) | in water ($D_w$) | |
| | [kg-day/mg] | [mg/kg-day] | [mg/L] | [L-water/L-air] | [$cm^3$/g] | [$cm^2$/s] | [$cm^2$/s] | [g/g-mol] |
| 1,2,4-Trimethylbenzene | NA | *1.70E-03* | *2.60E-01* | *2.30E-01* | *7.30E+03* | *7.50E-02* | *7.10E-06* | *1.20E+02* |
| 1,3,5-Trimethylbenzene | NA | *1.70E-03* | *4.80E+01* | *3.20E-01* | *8.20E+02* | *7.50E-02* | *7.10E-06* | *1.20E+02* |
| 1-Chlorohexane | NA | *2.86E-01* | *5.38E+01* | *9.98E-01* | *8.91E+02* | *6.40E-02* | *7.27E-06* | *1.21E+02* |
| 2-Hexanone | NA | *1.14E-03* | *1.79E+04* | *3.38E-03* | *1.78E+01* | *6.96E-02* | *7.75E-06* | *1.00E+02* |
| Acetone | NA | *9.00E-01* | *1.00E+06* | *1.60E-03* | *5.80E-01* | *1.20E-01* | *1.10E-05* | *5.80E+01* |
| Carbon disulfide | NA | 2.00E-01 | *1.19E+03* | *1.20E+00* | *4.60E+01* | *1.04E-01* | *1.00E-05* | *7.60E+01* |
| Ethylbenzene | NA | 2.90E-01 | *1.69E+02* | *3.23E-01* | *3.63E+02* | *7.50E-02* | *7.80E-06* | *1.06E+02* |
| Isopropylbenzene | NA | *1.14E-01* | *6.10E+01* | *4.90E+01* | *2.20E+02* | *7.50E-02* | *7.10E-06* | *1.20E+02* |
| Methyl ethyl ketone | NA | 1.43E+00 | *2.70E+05* | *1.10E-03* | *4.50E+00* | *9.00E-02* | *9.80E-06* | *7.20E+01* |
| Methylene chloride | 1.61E-03 | 8.60E-01 | *1.30E+04* | *9.00E-02* | *1.20E+01* | *1.00E-01* | *1.20E-05* | *8.50E+01* |
| Naphthalene | NA | 8.60E-04 | *3.10E+01* | *1.98E-02* | *2.00E+03* | *5.90E-02* | *7.50E-06* | *1.30E+02* |
| n-Butylbenzene | NA | *1.00E-02* | *1.40E+01* | *5.40E-01* | *2.80E+03* | *7.50E-02* | *7.80E-06* | *1.30E+02* |
| n-Propylbenzene | NA | *1.00E-02* | *1.40E+01* | *5.40E-01* | *2.80E+03* | *7.50E-02* | *7.80E-06* | *1.20E+02* |
| p-Isopropyltoluene | NA | *8.57E-02* | *1.71E+01* | *4.66E-01* | *2.29E+03* | *5.72E-02* | *6.73E-06* | *1.34E+02* |
| sec-Butylbenzene | NA | *1.00E-02* | *1.70E+01* | *7.70E-01* | *2.20E+03* | *7.50E-02* | *7.80E-06* | *1.30E+02* |
| tert-Butylbenzene | NA | *1.00E-02* | *3.00E+01* | *5.20E-01* | *2.20E+03* | *7.50E-02* | *7.80E-06* | *1.30E+02* |
| Tetrachloroethylene | *2.10E-02* | *1.00E-02* | *2.00E+02* | *7.54E-01* | *2.70E+02* | *7.20E-02* | *8.20E-06* | *1.70E+02* |
| Xylenes (total) | NA | 2.86E-02 | *1.98E+02* | *1.00E+00* | *1.43E+01* | *7.40E-02* | *8.50E-06* | *1.06E+02* |
| 2-Methylnaphthalene | NA | NA | *2.54E+01* | *1.85E-02* | *4.27E+03* | *6.29E-02* | *7.20E-06* | *1.42E+02* |

Sources:

Value in normal font was obtained from the Integrated Risk Information System (USEPA).

*Value in italic font* was obtained from the Technical Background Document for Development of Soil Screening Levels, Revision 4.0 (NMED, 2006a).

*Value in italic font and underlined* was obtained from the Table for Texas Risk Reduction Program Rule (TCEQ, 2007)

Notes:

NA = Not available

## Table 8-8(b)
## Exposure Factors Used for Calculating Target Levels for Outdoor Inhalation of Vapors from Subsurface Soil and Groundwater
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Parameter | Symbol | Unit | Values Used | Source |
|---|---|---|---|---|
| Averaging time for carcinogen | ATc | days | 25,550 | NMED, 2006a |
| Averaging time for non-carcinogen | ATnc | days | ED*365 | NMED, 2006a |
| Body weight for commercial/industrial worker | BW | kg | 70 | NMED, 2006a |
| Body weight for construction worker | BW | kg | 70 | NMED, 2006a |
| Exposure duration for commercial/industrial worker | ED | years | 25 | NMED, 2006a |
| Exposure duration for construction worker | ED | years | 1 | NMED, 2006a |
| Exposure frequency for commercial/industrial worker | EF | days/year | 225 | NMED, 2006a |
| Exposure frequency for construction worker | EF | days/year | 250 | NMED, 2006a |
| Inhalation rate for commercial/industrial worker | IRA | $m^3$/day | 20 | NMED, 2006a |
| Inhalation rate for construction worker | IRA | $m^3$/day | 20 | NMED, 2006a |

Notes:
NMED, 2006a. Technical Background Document for Development of Soil Screening Levels, Revision 4.0

## Table 8-8(c)

## Fate and Transport Parameters Used for Calculating Outdoor Inhalation of Vapors from Subsurface Soil and Groundwater

## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Parameter | Symbol | Unit | Value Used | Source |
|---|---|---|---|---|
| Mean annual wind speed | $U_m$ | m/s | 4.02 | NMED, 2006a |
| Breathing zone height | $\delta_a$ | cm | 200 | ASTM, 1995 |
| Depth to subsurface soil* | $L_s$ | cm | 122 | Site-specific |
| Depth to groundwater | $L_{GW}$ | cm | 198 | Site-specific |
| Dimension of source area parallel to wind direction** | $W_{ga}$ | cm | 4,267 | Site-specific |
| Soil dry bulk density | $\rho_b$ | $g/cm^3$ | 1.5 | Site-specific |
| Soil total porosity | n | unitless | 0.43 | NMED, 2006a |
| Soil water-filled porosity | $\theta_{wv}$ | $cm^3/cm^3$ | 0.26 | NMED, 2006a |
| Soil organic carbon fraction | $f_{oc}$ | unitless | 0.0046 | Site-specific |

Notes:

NMED, 2006a. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.

ASTM, 1995. Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites.

* = Higher impact was observed from soil samples collected between 3 and 5 ft bgs. Therefore, average depth of 4 ft was used.

** = Since this is not a sensitive parameter and wind direction is variable, conservatively the longer area dimension of 140 ft (4267 cm) was used.

## Table 8-9(a)
## Toxicity Values and Parameters Used for Calculating Target Levels for Dermal Contact with Groundwater
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| COPC | Dermal Slope Factor (SFd) [kg-day/mg] | Dermal Reference Dose (RfDd) [mg/kg-day] | Dermal Permeability Constant (Kp) [cm/hr] | Relative Contribution of Permeability Coefficient (B) [--] | Lag Time ($\tau_{event}$) [hr] | Time to Reach Steady-State (t*) [hr] | Fraction Absorbed (FA) [--] |
|---|---|---|---|---|---|---|---|
| Acetone | NA | 9.00E-01 | **5.23E-04** | **1.53E-03** | **2.22E-01** | **5.34E-01** | **1** |
| Isopropylbenzene | NA | 6.00E-01 | **9.60E-04** | **3.14E-03** | **2.70E-01** | **6.47E-01** | **1** |
| Methyl ethyl ketone | NA | 6.00E-01 | **9.60E-04** | **3.14E-03** | **2.70E-01** | **6.47E-01** | **1** |
| Naphthalene | NA | 2.00E-02 | **4.66E-02** | **2.03E-01** | **5.58E-01** | **1.34E+00** | **1** |
| n-Butylbenzene | NA | *1.00E-02* | ***2.01E-01*** | ***8.82E-01*** | ***5.62E-01*** | ***2.16E+00*** | ***1*** |
| n-Propylbenzene | NA | *1.00E-02* | ***9.74E-02*** | ***4.11E-01*** | ***4.95E-01*** | ***1.19E+00*** | ***1*** |
| sec-Butylbenzene | NA | *1.00E-02* | ***1.48E-01*** | ***6.51E-01*** | ***5.62E-01*** | ***2.21E+00*** | ***1*** |
| tert-Butylbenzene | NA | *1.00E-02* | ***1.70E-01*** | ***7.46E-01*** | ***5.62E-01*** | ***2.17E+00*** | ***1*** |
| Dibenzofuran | NA | *2.00E-03* | ***7.87E-02*** | ***3.92E-01*** | ***9.20E-01*** | ***2.21E+00*** | ***0.98*** |

Sources:
Value in normal font was obtained from the Integrated Risk Information System (USEPA).
*Value in italic font* was obtained from the Technical Background Document for Development of Soil Screening Levels, Revision 4.0 (NMED, 2006a).
**Value in bold** was obtained from the RAGS Volume I, Part E (USEPA, 2004a).
***Value in bold and italic*** was estimated as per the RAGS Volume I, Part E (USEPA, 2004a).
Notes:
NA = Not available

## Table 8-9(b)
## Exposure Factors Used for Calculating Target Levels for Dermal Contact with Groundwater
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| Parameter | Symbol | Unit | Values Used | Source |
|---|---|---|---|---|
| Averaging time for carcinogen | ATc | days | 25,550 | NMED, 2006a |
| Averaging time for non-carcinogen | ATnc | days | ED*365 | NMED, 2006a |
| Body weight for construction worker | BW | kg | 70 | NMED, 2006a |
| Exposure duration for construction worker | ED | years | 1 | NMED, 2006a |
| Exposure frequency for construction worker | EF | days/year | 250 | NMED, 2006a |
| Skin surface area for dermal contact with water for construction worker | $SA_{gw}$ | $cm^2$/day | 3,300 | USEPA, 2004a |
| Event frequency for dermal contact with water for construction worker | $EV_{gw}$ | event/day | 1 | Professional judgment |
| Event duration for dermal contact with water for construction worker | $t_{event}$ | hr/event | 1 | Professional judgment |

Notes:

NMED, 2006a. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.

USEPA, 2004a. Risk Assessment Guidance for Superfund Volume I, Part E Supplemental Guidance for Dermal Risk Assessment.

**Table 8-10**
**Comparison of Maximum Detected Soil Concentrations with Target Levels**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| COPCs | Soil Target Levels (mg/kg) | | | Maximum Detected Soil Concentration (mg/kg) | Maximum Detected Exceed Any Target Levels? |
|---|---|---|---|---|---|
| | Combined Pathways from Surficial Soil by Commercial/Industrial Worker | Outdoor Inhalation of Vapors from Subsurface Soil by Commercial/Industrial Worker | Combined Pathways from Soil by Construction Worker | | |
| 1,2,4-Trimethylbenzene | 213 | NOC | 190 | 103 | NE |
| 1,3,5-Trimethylbenzene | 69.2 | NOC | 69.2 | 99.6 | **E** |
| 1-Chlorohexane | 87.5 | NOC | 87.5 | 0.16 | NE |
| 2-Hexanone | 217 | 964 | 193 | 1 | NE |
| Acetone | 100,000 | NOC | 98,500 | 0.381 | NE |
| Carbon disulfide | 460 | NOC | 460 | 0.008 | NE |
| Ethylbenzene | 128 | NOC | 128 | 16 | NE |
| Isopropylbenzene | 389 | 184 | 389 | 7.64 | NE |
| Methyl ethyl ketone | 48,700 | NOC | 48,700 | 0.0353 | NE |
| Methylene chloride | 490 | 404 | 2,630 | 0.11 | NE |
| Naphthalene | 300 | NOC | 262 | 32.3 | NE |
| n-Butylbenzene | 62.1 | NOC | 62.1 | 38.9 | NE |
| n-Propylbenzene | 62.1 | NOC | 62.1 | 11.9 | NE |
| p-Isopropyltoluene | 62.6 | NOC | 62.6 | 31 | NE |
| sec-Butylbenzene | 60.6 | NOC | 60.6 | 21.6 | NE |
| Tetrachloroethylene | 31.6 | 32.5 | 134 | 0.0426 | NE |
| Xylenes (total) | 82 | NOC | 82 | 17.5 | NE |
| 2-Methylnaphthalene | 167 | NA | 167 | 43.7 | NE |
| Benzo[g,h,i]perylene | 18,300 | N/A | 6,680 | 0.029 | NE |
| Dibenzofuran | 1620 | N/A | 552 | 0.159 | NE |
| Diethyl phthalate | 100,000 | N/A | 100,000 | 1.15 | NE |
| Fluorene | 26,500 | N/A | 10,200 | 0.17 | NE |
| TPH (C10-C36) | 2,850 | NA | 2,850 | 35,025 | **E** |

Notes:
E = Exceed
NE = Not exceed
N/A = Not applicable
NA = Not available
NOC = Not of concern
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons
COPCs = Chemicals of potential concern

**Table 8-11(a)**
**Average Concentrations of Surficial Soil for Commercial/Industrial Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB01 | SB03 | SB04 | SB05 | SB06 | SB07 | SB07 | SB08 | SB09 | SB11 | SB12 | SB13 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date Sampled** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/5/2005** | **10/6/2005** | **10/6/2005** | **10/6/2005** | **10/6/2005** |
| **Depth (ft bgs)** | **0.8 -1.7** | **0.8 - 1.1** | **0.3 - 0.8** | **0.3 - 0.8** | **0.3 - 1** | **0.3 - 0.8** | **0.8 - 1.7** | **0.3 - 0.7** | **0.3 - 1.3** | **0 - 0.5** | **0.3 - 0.9** | **0.3 - 1.6** |
| 1,3,5-Trimethylbenzene | <0.0072 | <0.0072 | <0.0068 | 0.0541 | <0.0076 | <0.0069 | <0.0068 | <0.0065 | <0.0067 | <0.0066 | <0.0059 | <0.0078 |
| TPH (C10-C36) | <11 | 16.17 | <11 | 49.2 | <12 | <12 | 13.5 | <11 | <11 | 13.21 | <11 | <12 |

Notes:
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(a)**
**Average Concentrations of Surficial Soil for Commercial/Industrial Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB14 | SB15 | SB16 | SB17 (Avg) | SB18 | SB19 (Avg) | SB20 | SB21 (Avg) | Average Surficial Soil Concentration (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/6/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | |
| Depth (ft bgs) | 0.3 - 0.9 | 0.3 - 1.1 | 0.3 - 0.8 | 0.3 - 0.9 | 0.3 - 0.8 | 0.3 - 1 | 0.3 - 0.8 | 0.6 - 1 | |
| 1,3,5-Trimethylbenzene | <0.0061 | <0.0067 | <0.0055 | <0.0055 | <0.0057 | <0.00595 | <0.0066 | 0.0063 | 0.006 |
| TPH (C10-C36) | 37.2 | <11 | <9.6 | 12.65 | 13.41 | <9.95 | <11 | 38.1 | 13.0 |

Notes:
ft bgs = Feet below ground surface
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbc

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | EX01 | EX02 | EX03 | EX04 | EX05 | EX06 | EX07 | EX08 | EX09 | EX09A | EX09B | EX10 (Avg) | EX11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/18/2002 | 12/18/2002 | 12/16/2002 | 12/16/2002 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| 1,3,5-Trimethylbenzene | 15.3 | 1.67 | 0.624 | <0.005 | <0.5 | <0.005 | 1.92 J | <0.5 | <0.5 | 0.445 | <0.1 | <0.4675 | <0.48 |
| TPH (C10-C36) | 3,625 | 6,215 | 1,025 | <40 | <40 | <40 | 3,825 | <40 | 205 | 250 | 61 | 542.5 | 2,105 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | EX11A | EX12 | EX12A | EX13 | EX14 | EX15 | EX16 | EX17 | EX18 | EX18A | EX19 | SB01 | SB01 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 12/26/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/16/2002 | 12/26/2002 | 12/16/2002 | 10/5/2005 | 10/5/2005 |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 0.8 -1.7 | 2.8 - 3.1 |
| 1,3,5-Trimethylbenzene | <0.005 | 0.471 | <0.005 | <0.005 | <0.005 | <0.45 | <0.005 | <0.005 | 99.6 | <0.5 | 22.7 | <0.0072 | <0.0071 |
| TPH (C10-C36) | <40 | 1,985 | <40 | <40 | 90 | 172 | <40 | <40 | 23,625 | <40 | 35,025 | <11 | <11 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB01 | SB03 | SB03 | SB03 | SB04 | SB04 | SB04 | SB05 | SB05 | SB05 | SB06 | SB06 | SB06 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 |
| Depth (ft bgs) | 5.6 - 6 | 0.8 - 1.1 | 2.7 - 3.3 | 5.1 - 5.8 | 0.3 - 0.8 | 2.0 - 2.8 | 5.2 - 5.8 | 0.3 - 0.8 | 3.2 - 3.9 | 5 - 5.5 | 2.3 - 3.3 | 0.3 - 1 | 5.2 - 5.8 |
| 1,3,5-Trimethylbenzene | <0.46 | <0.0072 | <0.0073 | 0.0042 J | <0.0068 | <0.0056 | <0.0061 | 0.0541 | <0.0062 | <0.0066 | <0.0067 | <0.0076 | <0.0068 |
| TPH (C10-C36) | 93.4 | 16.17 | <12 | <11 | <11 | <11 | 46.5 | 49.2 | <11 | <11 | <12 | <12 | <12 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB07 | SB07 | SB07 | SB08 | SB08 | SB08 | SB09 | SB09 | SB09 | SB10 | SB10 | SB10 | SB11 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/5/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 0.3 - 0.8 | 0.8 - 1.7 | 4.3 - 4.7 | 0.3 - 0.7 | 2.8 - 3.3 | 5 - 5.7 | 0.3 - 1.3 | 2.8 - 3.6 | 5.3 - 5.9 | 2.5 - 2.8 | 4.7 - 5.2 | 7.8 - 8.7 | 0 - 0.5 |
| 1,3,5-Trimethylbenzene | <0.0069 | <0.0068 | <0.39 | <0.0065 | <0.0056 | <0.0068 | <0.0067 | <0.0046 | <0.0068 | <0.0069 | <0.0072 | <0.008 | <0.0066 |
| TPH (C10-C36) | <12 | 13.5 | 583 | <11 | <11 | <11 | <11 | <11 | 127 | <10 | <11 | <12 | 13.21 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB11 | SB11 | SB12 | SB12 | SB12 | SB13 | SB13 | SB13 | SB14 | SB14 | SB14 | SB15 | SB15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 | 10/6/2005 |
| Depth (ft bgs) | 2.8 - 3.1 | 4.5 - 6.7 | 0.3 - 0.9 | 2.7 - 3.4 | 5.1 - 5.8 | 0.3 - 1.6 | 2.3 - 2.9 | 5 - 5.7 | 0.3 - 0.9 | 2.8 - 3.3 | 4.8 - 5.5 | 0.3 - 1.1 | 1.8 - 3.4 |
| 1,3,5-Trimethylbenzene | <0.0063 | <0.0065 | <0.0059 | <0.0061 | <0.0072 | <0.0078 | <0.0063 | <0.007 | <0.0061 | <0.0065 | <0.006 | <0.0067 | <0.0075 |
| TPH (C10-C36) | <11 | <11 | <11 | <12 | <12 | <12 | <11 | 24.8 | 37.2 | <11 | <12 | <11 | <11 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB15 (Avg) | SB16 | SB16 | SB16 | SB17 (Avg) | SB17 (Avg) | SB17 (Avg) | SB18 | SB18 | SB18 | SB19 (Avg) | SB19 (Avg) | SB19 (Avg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date Sampled** | **10/6/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** | **10/11/2005** |
| **Depth (ft bgs)** | **5.6 - 7.4** | **0.3 - 0.8** | **2.7 - 3.1** | **4.8 - 5.6** | **0.3 - 0.9** | **2.6 - 3.2** | **5.0 - 5.6** | **0.3 - 0.8** | **2.6 - 3.2** | **5.1 - 5.7** | **0.3 - 1** | **2.4 - 3.4** | **4.7 - 6** |
| 1,3,5-Trimethylbenzene | <0.00695 | <0.0055 | <0.0054 | <0.0046 | <0.0055 | <0.00585 | <0.00605 | <0.0057 | <0.0061 | <0.0062 | <0.00595 | <0.0058 | <0.00635 |
| TPH (C10-C36) | <11 | <9.6 | <9.5 | <9.9 | 12.65 | <10.9 | <10.45 | 13.41 | <11 | <11 | <9.95 | <11 | 17.55 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SB20 | SB20 | SB20 | SB21 (Avg) | SB21 (Avg) | SB21 (Avg) | SW20 | SW21 | SW22 | SW23A | SW23B | SW23C | SW24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/11/2005 | 10/5/2006 | 10/5/2006 | 10/5/2006 | 10/17/2006 | 10/17/2006 | 10/17/2006 | 10/5/2006 |
| Depth (ft bgs) | 0.3 - 0.8 | 2.5 - 3.3 | 5.2 - 5.8 | 0.6 - 1 | 2.7 - 3.1 | 5.2 - 5.8 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 |
| 1,3,5-Trimethylbenzene | <0.0066 | <0.006 | <0.0073 | 0.0063 | <0.0056 | <0.0063 | 4.1 | <0.0058 | <0.66 | <0.0056 | <0.0061 | <0.0055 | <0.0049 |
| TPH (C10-C36) | <11 | <11 | <11 | 38.1 | <11 | <11.5 | 4,030 | 16.5 | 352 | 31 | 14.7 | <13.15 | 14.3 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

**Table 8-11(b)**
**Average Soil Concentrations for Construction Worker**
**West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico**

| Sample ID | SW25 | SW26 | SW27 | SW28 | SW29 | SW30 | SW31 | Average Soil Concentration (mg/kg) |
|---|---|---|---|---|---|---|---|---|
| Date Sampled | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/12/2006 | 10/16/2006 | 10/16/2006 | 10/16/2006 | |
| Depth (ft bgs) | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | 3 - 5 | |
| 1,3,5-Trimethylbenzene | <0.0057 | 8.2 | 5 | 0.69 | <0.0066 | <0.0056 | <0.0074 | 1.7 |
| TPH (C10-C36) | 90 | 2,925 | 1,920 | 684 | <14.35 | <14.3 | <13.75 | 922 |

Notes:
ft bgs = Feet below ground surface
J = Indicates an estimated value
mg/kg = Milligrams per kilogram
TPH = Total Petroleum Hydrocarbons

## Table 8-12(a)
## Comparison of Average Surficial Soil Concentrations with Target Levels
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| COPCs | Soil Target Level for Combined Pathways from Surficial Soil by Commercial/Industrial Worker (mg/kg) | Average Surficial Soil Concentration (mg/kg) | Average Concentration Exceed Target Level? |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | 69.2 | 0.006 | NE |
| TPH (C10-C36) | 2,850 | 13 | NE |

Notes:
NE = Not exceed
mg/kg = Milligrams per kilogram

## Table 8-12(b)
## Comparison of Average Soil Concentrations with Target Levels
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| COPCs | Soil Target Level for Combined Pathways from Soil by Construction Worker (mg/kg) | Average Soil Concentration (mg/kg) | Average Concentration Exceed Target Level? |
|---|---|---|---|
| 1,3,5-Trimethylbenzene | 69.2 | 1.7 | NE |
| TPH (C10-C36) | 2,850 | 922 | NE |

Notes:
NE = Not exceed
mg/kg = Milligrams per kilogram

## Table 8-13
## Comparison of Maximum Detected Groundwater Concentrations with Target Levels
## West POL Yard Fuel Spill Site, Holloman Air Force Base, New Mexico

| COPCs | Groundwater Target Level for Dermal Contact with Groundwater by Construction Worker (mg/L) | Maximum Detected Groundwater Concentration (mg/L) | Maximum Detected Exceed Any Target Levels? |
|---|---|---|---|
| Acetone | 36,900 | 0.0156 | NE |
| Isopropylbenzene | 12,600 | 0.0023 | NE |
| Methyl ethyl ketone | 12,600 | 0.005125 | NE |
| Naphthalene | 6.44 | 0.0016 | NE |
| n-Butylbenzene | 0.744 | 0.0016 | NE |
| n-Propylbenzene | 1.64 | 0.00056 | NE |
| sec-Butylbenzene | 1.01 | 0.0091 | NE |
| tert-Bultylbenzene | 0.879 | 0.00067 | NE |
| Dibenzofuran | 0.303 | 0.0009 | NE |
| TPH (C10-C36) | N/A | 1.605 | NA |

Notes:
NE = Not exceed
N/A = Not applicable
NA = Not available
mg/kg = Milligrams per kilogram

# APPENDIX A

# HISTORICAL DATA FROM PREVIOUS INVESTIGATIONS

# Appendix A-1

## (Laboratory data on enclosed CD)

**WPOL Yard Analytical Data from the *Closure Report for the excavations at FT-31 South Area and the West POL Yard, Holloman Air Force Base, New Mexico***

**Foster Wheeler, June 2003**

## Table C-3. Summary of Analytical Results for West POL Yard Soil Stockpile Samples

| Analyte | Sample ID | | | | | | |
|---|---|---|---|---|---|---|---|
| | WPOLSS01 | WPOLSS02 | WPOLSS03 | WPOLSS04 | WPOLSS05 | WPOLSS06 | WPOLSS07 |
| VOCs (ug/Kg) | | | | | | | |
| 1,2,4-Trimethylbenzene | 7670 | 6950 | 38300 | 27300 | 11300 | 8000 | 7750 |
| 1,3,5-Trimethylbenzene | 2360 | 2110 | 7230 | 4640 | 2880 | 1960 | 2000 |
| Ethylbenzene | 1670 | ND | 6880 | 7510 | 3190 | 1770 | 1840 |
| Isopropylbenzene (Cumene) | 1100 | 682 | 3580 | 2910 | 1630 | 878 | 1050 |
| n-Butylbenzene | 4940 | 2990 | 15100 | 7420 | 4990 | 2200 | 429 J |
| n-Propylbenzene | 1980 | 850 | 6470 | 4850 | 2650 | 1710 | 1990 |
| p-Isopropyltoluene | 2200 | 2260 | 6420 | 3620 | 2740 | 1960 | 1780 |
| sec-Butylbenzene | 2970 | 2750 | 8120 | 4620 | 3220 | 1880 | 2290 |
| Xylenes, total | 759 | 507 | 6760 | 7120 | 4310 | 2540 | ND |
| SVOCs (ug/Kg) | | | | | | | |
| 2-Methylnaphthalene | 3530 | 4380 | 6550 | 5060 | 3350 | 1160 | 1020 |
| Naphthalene | 3340 | 1330 | 10900 | 5960 | 4240 | 2740 | 3360 |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | |
| C06 - C10 | 718 | 2030 | 610 | 1280 | 1620 | 1120 | 900 |
| C10 - C22 | 352 | 1260 | 2240 | 513 | 605 | 465 | 452 |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

## Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples



| Analyte | Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WPOLEX01 | WPOLEX02 | WPOLEX03 | WPOLEX04 | WPOLEX05 | WPOLEX06 | WPOLEX07 | WPOLEX08 |
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | **77100** | **18000** | **2970** | **16** | ND | ND | **15400** | ND |
| 1,3,5-Trimethylbenzene | **15300** | **1670** | **624** | ND | ND | ND | **1920 J** | ND |
| Ethylbenzene | **13400** | **3040** | **2190** | **52** | ND | ND | **6730** | ND |
| Isopropylbenzene (Cumene) | **6950** | **1470** | **930** | **19** | ND | ND | **3650** | ND |
| n-Butylbenzene | **23800** | **5830** | **1010** | **3.3 J** | ND | ND | **5300** | ND |
| n-Propylbenzene | **11900** | **2500** | **1370** | **15** | ND | ND | **5900** | ND |
| p-Isopropyltoluene | **20300** | **5600** | **881** | **1.2 J** | ND | ND | **4420** | ND |
| sec-Butylbenzene | **16200** | **3630** | **1160** | **10** | ND | ND | **6240** | ND |
| Xylenes, total | **6780** | **1480** | **350** | **14** | ND | ND | **533 J** | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | **17100** | **15100** | **5660** | ND | ND | ND | **5630** | ND |
| Naphthalene | **36700** | **6570** | **1750** | **12** | ND | ND | **5030** | ND |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | **925** | **1950** | **840** | ND | ND | ND | **986** | ND |
| C10 - C22 | **3600** | **6190** | **1000** | ND | ND | ND | **3800** | ND |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

**Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples**

| Analyte | WPOLEX09 | WPOLEX09A | WPOLEX09B | WPOLEX10 | WPOLEX10D | WPOLEX11 | WPOLEX11A | WPOLEX12 |
|---|---|---|---|---|---|---|---|---|
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | **719** | **437** | ND | ND | ND | ND | ND | **3240** |
| 1,3,5-Trimethylbenzene | ND | **445** | ND | ND | ND | ND | ND | **471** |
| Ethylbenzene | ND | **1800** | ND | **1150** | ND | ND | ND | **1770** |
| Isopropylbenzene (Cumene) | **304 J** | **1070** | ND | **984** | **273 J** | ND | ND | **993** |
| n-Butylbenzene | **491 J** | **732** | ND | **604** | ND | **336 J** | ND | **3500** |
| n-Propylbenzene | **478 J** | **1850** | ND | **1640** | **426 J** | **147 J** | ND | **1780** |
| p-Isopropyltoluene | **417 J** | **1150** | ND | **311 J** | ND | **176 J** | ND | **1360** |
| sec-Butylbenzene | **618** | **2210** | ND | **2140** | **500** | **180 J** | ND | **1990** |
| Xylenes, total | ND | ND | ND | ND | ND | ND | ND | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | **1020** | **2640** | ND | **1490** | **2330** | **10000** | ND | **7510** |
| Naphthalene | **426 J** | **1160** | ND | **757 J** | **963** | **910** | ND | **3390** |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | **350** | **600** | ND | **184** | **174** | **612** | ND | **630** |
| C10 - C22 | **180** | **225** | **36** | **507** | **528** | **2080** | ND | **1960** |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

**Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples**

| Analyte | Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WPOLEX12A | WPOLEX13 | WPOLEX14 | WPOLEX15 | WPOLEX16 | WPOLEX17 | WPOLEX18 | WPOLEX18A |
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND | ND | **24200** | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND | ND | **99600** | ND |
| Ethylbenzene | ND | ND | ND | ND | ND | ND | **12400** | ND |
| Isopropylbenzene (Cumene) | ND | ND | ND | ND | ND | ND | **6860** | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND | ND | **38900** | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND | ND | **10200** | ND |
| p-Isopropyltoluene | ND | ND | ND | ND | ND | ND | **29400** | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND | ND | **21600** | ND |
| Xylenes, total | ND | ND | ND | ND | ND | ND | **12700** | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | ND | ND | ND | ND | ND | ND | **31100** | ND |
| Naphthalene | ND | ND | ND | ND | ND | ND | **46500** | ND |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | ND | ND | **41** | **175** | ND | ND | **7790** | ND |
| C10 - C22 | ND | ND | **65** | **147** | ND | ND | **23600** | ND |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

**Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples**

| Analyte | WPOLEX19 |
|---|---|
| VOCs (ug/Kg) | |
| 1,2,4-Trimethylbenzene | **103000** |
| 1,3,5-Trimethylbenzene | **22700** |
| Ethylbenzene | **16000** |
| Isopropylbenzene (Cumene) | **7640** |
| n-Butylbenzene | **36800** |
| n-Propylbenzene | **11400** |
| p-Isopropyltoluene | **31000** |
| sec-Butylbenzene | ND |
| Xylenes, total | **17500** |
| SVOCs (ug/Kg) | |
| 2-Methylnaphthalene | **43700** |
| Naphthalene | **45100** |
| Petroleum Hydrocarbons (mg/Kg) | |
| C06 - C10 | **13900** |
| C10 - C22 | **35000** |
| C22 - C32 | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

# Appendix A-2

## (Laboratory data on enclosed CD)

## West POL Soil Boring Sampling Event, October 2005, Analytical Data from the *Groundwater Monitoring Work Plan, West POL Yard, HAFB New Mexico*

## Bhate, December 2006

App[illegible] A-2
Soil Boring Analytical Data (October 2005)
West POL Yard, Holloman AFB, New Mexico

| Client Sample ID: | Soil Screening Levels | | WPOL-SB01-10,20 | | WPOL-SB01-34,37 | | WPOL-SB01-64,72 | | WPOL-SB03-32,39 | | WPOL-SB03-61,70 | | WPOL-SB03-9,13 | | WPOL-SB04-24,33 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35540-1 | | F35540-2 | | F35540-3 | | F35540-14 | | F35540-15 | | F35540-13 | | F35540-11 | |
| Date Sampled: | | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 36 | U | 35 | U | 2300 | U | 37 | U | 35 | U | 36 | U | 28 | U |
| n-Butylbenzene | NV | 62.1 | 2.9 | U | 6.9 | J | 2010 | | 2.9 | U | 5.0 | J | 2.9 | U | 2.2 | U |
| sec-Butylbenzene | NV | 60.6 | 2.9 | U | 8.0 | | 1750 | | 13.7 | | 4.9 | J | 2.9 | U | 2.2 | U |
| Carbon disulfide | NV | 460 | 6.0 | J | 2.8 | U | 190 | U | 3.9 | J | 8.0 | | 2.9 | U | 2.2 | U |
| Ethylbenzene | NV | 128 | 2.9 | U | 2.8 | U | 809 | | 2.9 | U | 28.6 | | 2.9 | U | 2.2 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.9 | U | 2.8 | U | 765 | | 2.9 | U | 6.5 | J | 2.9 | U | 2.2 | U |
| p-Isopropyltoluene | NV | NV | 2.9 | U | 2.8 | U | 753 | | 2.9 | U | 3.4 | J | 2.9 | U | 2.2 | U |
| Methylene chloride | NV | 182 | 7.2 | U | 7.1 | U | 460 | U | 7.3 | U | 7.0 | U | 7.2 | U | 5.6 | U |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 14 | U | 930 | U | 15 | U | 35.3 | J | 14 | U | 11 | U |
| Naphthalene | NV | 79.5 | 2.9 | U | 22.0 | B | 609 | B | 7.4 | B | 56.0 | B | 6.6 | JB | 2.2 | U |
| n-Propylbenzene | NV | 62.1 | 2.9 | U | 2.9 | J | 1230 | | 2.9 | U | 7.8 | | 2.9 | U | 2.2 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.9 | U | 12.8 | | 854 | | 2.9 | U | 49.1 | | 2.9 | U | 2.2 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.9 | U | 2.8 | U | 190 | U | 2.9 | U | 4.2 | J | 2.9 | U | 2.2 | U |
| Tetrachloroethylene | NV | 12.5 | 2.9 | U | 2.8 | U | 190 | U | 2.9 | U | 2.8 | U | 2.9 | U | 2.2 | U |
| m,p-Xylene | NV | 82 | 3.6 | U | 3.5 | U | 230 | U | 3.7 | U | 16.3 | | 3.6 | U | 2.8 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 45 | U | 45 | U | 93.3 | J | 48 | U | 45 | U | 45 | U | 45 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 110 | U | 120 | U | 120 | U | 110 | U | 712 | | 110 | U |
| Fluorene | NV | 2660 | 45 | U | 45 | U | 48 | U | 48 | U | 45 | U | 45 | U | 45 | U |
| 2-Methylnaphthalene | NV | NV | 45 | U | 45 | U | 415 | | 48 | U | 45 | U | 45 | U | 45 | U |
| Naphthalene | NV | 79.5 | 45 | U | 45 | U | 131 | J | 48 | U | 45 | U | 45 | U | 45 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.3 | U | 4.3 | U | 167 | | 4.7 | U | 4.6 | U | 4.6 | U | 4.2 | U |
| TPH (C10-C22) | NV | NV | 6.8 | U | 6.6 | U | 81.4 | | 7.3 | U | 6.8 | U | 8.24 | J | 6.9 | U |
| TPH (>C22-C36) | NV | NV | 6.8 | U | 6.6 | U | 14 | U | 7.3 | U | 6.8 | U | 7.93 | J | 6.9 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 72.5 | | 73.3 | | 68.9 | | 68.0 | | 72.3 | | 73.3 | | 72.4 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2]If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

Appe[illegible]A-2
**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB04-4,9 | | WPOL-SB04-62,69 | | WPOL-SB05-38,47 | | WPOL-SB05-4,9 | | WPOL-SB05-60,66 | | WPOL-SB06-27,40 | | WPOL-SB06-4,12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35540-10 | | F35540-12 | | F35540-17 | | F35540-16 | | F35540-18 | | F35540-5 | | F35540-4 | |
| Date Sampled: | | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 34 | U | 30 | U | 31 | U | 38.1 | J | 33 | U | 33 | U | 38 | U |
| n-Butylbenzene | NV | 62.1 | 2.8 | U | 2.4 | U | 2.5 | U | 30.6 | | 2.6 | U | 2.7 | U | 3.0 | U |
| sec-Butylbenzene | NV | 60.6 | 2.8 | U | 57.4 | | 2.5 | U | 40.1 | | 2.6 | U | 2.7 | U | 3.0 | U |
| Carbon disulfide | NV | 460 | 2.7 | U | 5.8 | J | 2.5 | U | 6.1 | J | 2.6 | U | 2.7 | U | 3.0 | U |
| Ethylbenzene | NV | 128 | 2.7 | U | 9.4 | | 2.5 | U | 45.2 | | 2.6 | U | 2.7 | U | 3.0 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.7 | U | 13.0 | | 2.5 | U | 33.2 | | 2.6 | U | 2.7 | U | 3.0 | U |
| p-Isopropyltoluene | NV | NV | 2.7 | U | 2.4 | U | 2.5 | U | 26.9 | | 2.6 | U | 2.7 | U | 3.0 | U |
| Methylene chloride | NV | 182 | 6.8 | U | 6.1 | U | 6.2 | U | 7.0 | U | 6.6 | U | 6.7 | U | 7.6 | U |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 12 | U | 12 | U | 14 | U | 13 | U | 13 | U | 15 | U |
| Naphthalene | NV | 79.5 | 2.7 | U | 3.2 | J | 2.5 | U | 109 | B | 2.6 | U | 2.7 | U | 3.0 | U |
| n-Propylbenzene | NV | 62.1 | 2.7 | U | 11.4 | | 2.5 | U | 45.5 | | 2.6 | U | 2.7 | U | 3.0 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.7 | U | 4.7 | J | 2.5 | U | 158 | | 2.6 | U | 2.7 | U | 3.0 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.7 | U | 2.4 | U | 2.5 | U | 54.1 | | 2.6 | U | 2.7 | U | 3.0 | U |
| Tetrachloroethylene | NV | 12.5 | 2.7 | U | 2.4 | U | 2.5 | U | 2.8 | U | 2.6 | U | 2.7 | U | 42.6 | |
| m,p-Xylene | NV | 82 | 3.4 | U | 3.0 | U | 3.1 | U | 5.4 | J | 3.3 | U | 3.3 | U | 3.8 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 44 | U | 45 | U | 43 | U | 44 | U | 45 | U | 47 | U | 49 | U |
| Diethyl phthalate | NV | 48900 | 1150 | | 110 | U | 110 | U | 110 | U | 110 | U | 120 | U | 120 | U |
| Fluorene | NV | 2660 | 44 | U | 45 | U | 43 | U | 44 | U | 45 | U | 47 | U | 49 | U |
| 2-Methylnaphthalene | NV | NV | 44 | U | 45 | U | 43 | U | 44 | U | 45 | U | 47 | U | 49 | U |
| Naphthalene | NV | 79.5 | 44 | U | 45 | U | 43 | U | 44 | U | 45 | U | 47 | U | 49 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.0 | U | 16.5 | | 4.2 | U | 10.8 | | 4.1 | U | 4.6 | U | 4.9 | U |
| TPH (C10-C22) | NV | NV | 6.5 | U | 41.0 | | 6.5 | U | 43.7 | | 6.7 | U | 7.0 | U | 7.1 | U |
| TPH (>C22-C36) | NV | NV | 6.5 | U | 6.6 | U | 6.5 | U | 6.5 | U | 6.7 | U | 7.0 | U | 7.1 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 75.4 | | 73.6 | | 76.2 | | 74.7 | | 74.6 | | 69.4 | | 67.7 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB06-62,70 | | WPOL-SB07-4,9 | | WPOL-SB07-52,56 | | WPOL-SB07-9,20 | | WPOL-SB08-34,39 | | WPOL-SB08-4,8 | | WPOL-SB08-60,68 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35540-6 | | F35540-8 | | F35540-9 | | F35540-7 | | F35540-22 | | F35540-21 | | F35540-23 | |
| Date Sampled: | | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | | 10/5/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 34 | U | 35 | U | 2000 | U | 34 | U | 28 | U | 32 | U | 34 | U |
| n-Butylbenzene | NV | 62.1 | 2.7 | U | 2.8 | U | 1870 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| sec-Butylbenzene | NV | 60.6 | 2.7 | U | 2.8 | U | 3430 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| Carbon disulfide | NV | 460 | 4.5 | J | 2.8 | U | 160 | U | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| Ethylbenzene | NV | 128 | 2.7 | U | 2.8 | U | 990 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.7 | U | 2.8 | U | 1410 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| p-Isopropyltoluene | NV | NV | 2.7 | U | 2.8 | U | 711 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| Methylene chloride | NV | 182 | 6.8 | U | 6.9 | U | 390 | U | 6.8 | U | 5.6 | U | 6.5 | U | 6.8 | U |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 14 | U | 780 | U | 14 | U | 11 | U | 13 | U | 14 | U |
| Naphthalene | NV | 79.5 | 2.7 | U | 2.8 | U | 160 | U | 4.3 | JB | 2.3 | U | 2.6 | U | 2.7 | U |
| n-Propylbenzene | NV | 62.1 | 2.7 | U | 2.8 | U | 2440 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.7 | U | 2.8 | U | 532 | | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.7 | U | 2.8 | U | 160 | U | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| Tetrachloroethylene | NV | 12.5 | 2.7 | U | 2.8 | U | 160 | U | 2.7 | U | 2.3 | U | 2.6 | U | 2.7 | U |
| m,p-Xylene | NV | 82 | 3.4 | U | 3.5 | U | 200 | U | 3.4 | U | 2.8 | U | 3.2 | U | 3.4 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 46 | U | 47 | U | 159 | J | 47 | U | 43 | U | 42 | U | 44 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 120 | U | 110 | U | 120 | U | 110 | U | 110 | U | 110 | U |
| Fluorene | NV | 2660 | 46 | U | 47 | U | 53.5 | J | 47 | U | 43 | U | 42 | U | 44 | U |
| 2-Methylnaphthalene | NV | NV | 46 | U | 47 | U | 43 | U | 47 | U | 43 | U | 42 | U | 44 | U |
| Naphthalene | NV | 79.5 | 46 | U | 47 | U | 220 | U | 47 | U | 43 | U | 42 | U | 44 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.4 | U | 4.4 | U | 319 | | 4.6 | U | 3.9 | U | 4.0 | U | 3.9 | U |
| TPH (C10-C22) | NV | NV | 6.9 | U | 7.1 | U | 528 | | 7.50 | J | 6.4 | U | 6.4 | U | 6.6 | U |
| TPH (>C22-C36) | NV | NV | 6.9 | U | 7.1 | U | 66 | U | 7.1 | U | 6.4 | U | 6.4 | U | 6.6 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 71.3 | | 69.6 | | 74.8 | | 69.6 | | 76.6 | | 77.2 | | 74.8 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB013-28,35 | | WPOL-SB013-4,19 | | WPOL-SB013-60,68 | | WPOL-SB014-33,39 | | WPOL-SB014-4,11 | | WPOL-SB014-57,66 | | WPOL-SB015-21,41 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35564-2 | | F35564-1 | | F35564-3 | | F35564-5 | | F35564-4 | | F35564-6 | | F35564-8 | |
| Date Sampled: | | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 31 | U | 39 | U | 35 | U | 33 | U | 31 | U | 30 | U | 37 | U |
| n-Butylbenzene | NV | 62.1 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| sec-Butylbenzene | NV | 60.6 | 2.5 | U | 3.1 | U | 35.7 | | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| Carbon disulfide | NV | 460 | 2.5 | U | 3.1 | U | 5.9 | J | 2.6 | U | 2.4 | U | 4.9 | J | 3.0 | U |
| Ethylbenzene | NV | 128 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.5 | U | 3.1 | U | 4.2 | J | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| p-Isopropyltoluene | NV | NV | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| Methylene chloride | NV | 182 | 16.8 | | 22.4 | | 16.4 | | 15.0 | | 11.5 | J | 12.6 | | 10.7 | J |
| Methyl ethyl ketone | NV | 31800 | 13 | U | 16 | U | 14 | U | 13 | U | 12 | U | 12 | U | 15 | U |
| Naphthalene | NV | 79.5 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| n-Propylbenzene | NV | 62.1 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| Tetrachloroethylene | NV | 12.5 | 2.5 | U | 3.1 | U | 2.8 | U | 2.6 | U | 2.4 | U | 2.4 | U | 3.0 | U |
| m,p-Xylene | NV | 82 | 3.1 | U | 3.9 | U | 3.5 | U | 3.3 | U | 3.1 | U | 3.0 | U | 3.7 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 43 | U | 48 | U | 48 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 120 | U | 120 | U | 110 | U | 110 | U | 120 | U | 110 | U |
| Fluorene | NV | 2660 | 43 | U | 48 | U | 48 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| 2-Methylnaphthalene | NV | NV | 43 | U | 48 | U | 48 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| Naphthalene | NV | 79.5 | 43 | U | 48 | U | 48 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.1 | U | 4.8 | U | 11.2 | | 3.9 | U | 3.61 | J | 4.0 | U | 4.4 | U |
| TPH (C10-C22) | NV | NV | 6.5 | U | 7.3 | U | 18.8 | | 6.4 | U | 31.7 | | 6.9 | U | 6.7 | U |
| TPH (>C22-C36) | NV | NV | 6.5 | U | 7.3 | U | 7.2 | U | 6.4 | U | 6.4 | U | 6.9 | U | 6.7 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 76.5 | | 68.5 | | 69.1 | | 77.3 | | 76.1 | | 71.5 | | 73.4 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB015-4,13 | | WPOL-SB015-67,89 | | WPOL-SB015-67,89-FD | | WPOL-SB09-34,43 | | WPOL-SB09-4,16 | | WPOL-SB09-63,71 | | WPOL-SB10-30,34 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35564-7 | | F35564-9 | | F35564-10 | | F35566-2 | | F35566-1 | | F35566-3 | | F35566-4 | |
| Date Sampled: | | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 33 | U | 36 | U | 33 | U | 23 | U | 33 | U | 34 | U | 34 | U |
| n-Butylbenzene | NV | 62.1 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| sec-Butylbenzene | NV | 60.6 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 54.2 | | 2.7 | U |
| Carbon disulfide | NV | 460 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| Ethylbenzene | NV | 128 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 44.6 | | 2.7 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 28.9 | | 2.7 | U |
| p-Isopropyltoluene | NV | NV | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| Methylene chloride | NV | 182 | 12.8 | J | 22.2 | | 18.8 | | 12.2 | | 23.8 | | 18.4 | | 21.7 | |
| Methyl ethyl ketone | NV | 31800 | 13 | U | 14 | U | 13 | U | 9.3 | U | 13 | U | 14 | U | 14 | U |
| Naphthalene | NV | 79.5 | 2.7 | U | 2.9 | U | 2.7 | U | 2.3 | JB | 2.7 | U | 2.7 | U | 2.7 | U |
| n-Propylbenzene | NV | 62.1 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 14.8 | | 2.7 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| Tetrachloroethylene | NV | 12.5 | 2.7 | U | 2.9 | U | 2.7 | U | 1.9 | U | 2.7 | U | 2.7 | U | 2.7 | U |
| m,p-Xylene | NV | 82 | 3.3 | U | 3.6 | U | 3.3 | U | 2.3 | U | 3.3 | U | 3.4 | U | 3.4 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 45 | U | 45 | U | 46 | U | 44 | U | 43 | U | 44 | U | 42 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 110 | U | 110 | U | 110 | U | 110 | U | 110 | U | 110 | U |
| Fluorene | NV | 2660 | 45 | U | 45 | U | 46 | U | 44 | U | 43 | U | 44 | U | 42 | U |
| 2-Methylnaphthalene | NV | NV | 45 | U | 45 | U | 46 | U | 44 | U | 43 | U | 44 | U | 42 | U |
| Naphthalene | NV | 79.5 | 45 | U | 45 | U | 46 | U | 44 | U | 43 | U | 44 | U | 42 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.3 | U | 4.3 | U | 4.3 | U | 4.2 | U | 4.2 | U | 15.2 | | 4.0 | U |
| TPH (C10-C22) | NV | NV | 6.9 | U | 6.8 | U | 6.7 | U | 6.5 | U | 6.6 | U | 116 | | 6.2 | U |
| TPH (>C22-C36) | NV | NV | 6.9 | U | 6.8 | U | 6.7 | U | 6.5 | U | 6.6 | U | 13 | U | 6.2 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 72.4 | | 73.4 | | 72.9 | | 75.7 | | 74.8 | | 74.1 | | 77.8 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB10-56,62 | | WPOL-SB10-93,104 | | WPOL-SB11-0,6 | | WPOL-SB11-33,37 | | WPOL-SB11-54,80 | | WPOL-SB12-32,41 | | WPOL-SB12-4,11 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35566-5 | | F35566-6 | | F35566-7 | | F35566-8 | | F35566-9 | | F35566-11 | | F35566-10 | |
| Date Sampled: | | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | | 10/6/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 36 | U | 40 | U | 33 | U | 31 | U | 33 | U | 31 | U | 30 | U |
| n-Butylbenzene | NV | 62.1 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| sec-Butylbenzene | NV | 60.6 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| Carbon disulfide | NV | 460 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| Ethylbenzene | NV | 128 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| p-Isopropyltoluene | NV | NV | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| Methylene chloride | NV | 182 | 18.8 | | 16.4 | | 20.6 | | 10.9 | J | 13.2 | | 8.1 | J | 10.6 | J |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 16 | U | 13 | U | 13 | U | 13 | U | 12 | U | 12 | U |
| Naphthalene | NV | 79.5 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| n-Propylbenzene | NV | 62.1 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| Tetrachloroethylene | NV | 12.5 | 2.9 | U | 3.2 | U | 2.6 | U | 2.5 | U | 2.6 | U | 2.4 | U | 2.4 | U |
| m,p-Xylene | NV | 82 | 3.6 | U | 4.0 | U | 3.3 | U | 3.1 | U | 3.3 | U | 3.1 | U | 3.0 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 44 | U | 48 | U | 42 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 120 | U | 110 | U | 110 | U | 110 | U | 120 | U | 110 | U |
| Fluorene | NV | 2660 | 44 | U | 48 | U | 42 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| 2-Methylnaphthalene | NV | NV | 44 | U | 48 | U | 42 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| Naphthalene | NV | 79.5 | 44 | U | 48 | U | 42 | U | 42 | U | 43 | U | 47 | U | 45 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.1 | U | 4.1 | U | 3.7 | U | 4.5 | U | 3.0 | U | 5.0 | U | 3.8 | U |
| TPH (C10-C22) | NV | NV | 6.6 | U | 7.2 | U | 6.3 | U | 6.4 | U | 6.4 | U | 6.9 | U | 6.8 | U |
| TPH (>C22-C36) | NV | NV | 6.6 | U | 7.2 | U | 7.71 | J | 6.4 | U | 6.4 | U | 6.9 | U | 6.8 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 74.8 | | 69.0 | | 78.5 | | 76.9 | | 76.2 | | 70.8 | | 73.9 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB12-61,69 | | WPOL-SB16-32,37 | | WPOL-SB16-4,9 | | WPOL-SB16-58,67 | | WPOL-SB17-31,38 | | WPOL-SB17-4,11 | | WPOL-SB17-60,67 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35566-12 | | F35686-2 | | F35686-1 | | F35686-3 | | F35686-5 | | F35686-4 | | F35686-6 | |
| Date Sampled: | | | 10/6/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 36 | U | 27 | U | 28 | U | 23 | U | 25 | U | 26 | U | 30 | U |
| n-Butylbenzene | NV | 62.1 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| sec-Butylbenzene | NV | 60.6 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| Carbon disulfide | NV | 460 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| Ethylbenzene | NV | 128 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| p-Isopropyltoluene | NV | NV | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| Methylene chloride | NV | 182 | 7.2 | U | 5.4 | U | 5.5 | U | 4.6 | U | 4.9 | U | 5.2 | U | 6.0 | U |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 11 | U | 11 | U | 9.1 | U | 9.8 | U | 10 | U | 12 | U |
| Naphthalene | NV | 79.5 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| n-Propylbenzene | NV | 62.1 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| Tetrachloroethylene | NV | 12.5 | 2.9 | U | 2.1 | U | 2.2 | U | 1.8 | U | 2.0 | U | 2.1 | U | 2.4 | U |
| m,p-Xylene | NV | 82 | 3.6 | U | 2.7 | U | 2.8 | U | 2.3 | U | 2.5 | U | 2.6 | U | 3.0 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 46 | U | 39 | U | 38 | U | 40 | U | 39 | U | 38 | U | 40 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 96 | U | 95 | U | 100 | U | 97 | U | 120 | J | 99 | U |
| Fluorene | NV | 2660 | 46 | U | 39 | U | 38 | U | 40 | U | 39 | U | 38 | U | 40 | U |
| 2-Methylnaphthalene | NV | NV | 46 | U | 39 | U | 38 | U | 40 | U | 39 | U | 38 | U | 40 | U |
| Naphthalene | NV | 79.5 | 46 | U | 39 | U | 38 | U | 40 | U | 39 | U | 38 | U | 40 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 5.2 | U | 3.2 | U | 3.4 | U | 3.3 | U | 2.9 | U | 3.2 | U | 3.8 | U |
| TPH (C10-C22) | NV | NV | 7.0 | U | 5.7 | U | 5.7 | U | 5.9 | U | 5.9 | U | 5.7 | U | 5.9 | U |
| TPH (>C22-C36) | NV | NV | 7.0 | U | 5.7 | U | 5.7 | U | 5.9 | U | 5.9 | U | 5.7 | U | 5.9 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 70.8 | | 85.1 | | 87.1 | | 82.4 | | 84.6 | | 86.8 | | 82.3 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2]If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB17FD-31,38 | | WPOL-SB17FD-4,11 | | WPOL-SB17FD-60,67 | | WPOL-SB18-31,38 | | WPOL-SB18-4,10 | | WPOL-SB18-61,68 | | WPOL-SB19-29,41 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35686-8 | | F35686-7 | | F35686-9 | | F35686-11 | | F35686-10 | | F35686-12 | | F35686-14 | |
| Date Sampled: | | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 34 | U | 29 | U | 30 | U | 31 | U | 29 | U | 31 | U | 30 | U |
| n-Butylbenzene | NV | 62.1 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| sec-Butylbenzene | NV | 60.6 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| Carbon disulfide | NV | 460 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| Ethylbenzene | NV | 128 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| p-Isopropyltoluene | NV | NV | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| Methylene chloride | NV | 182 | 6.8 | U | 5.8 | U | 6.1 | U | 6.1 | U | 5.7 | U | 6.2 | U | 6.1 | U |
| Methyl ethyl ketone | NV | 31800 | 14 | U | 12 | U | 12 | U | 12 | U | 11 | U | 12 | U | 12 | U |
| Naphthalene | NV | 79.5 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| n-Propylbenzene | NV | 62.1 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| Tetrachloroethylene | NV | 12.5 | 2.7 | U | 2.3 | U | 2.4 | U | 2.5 | U | 2.3 | U | 2.5 | U | 2.4 | U |
| m,p-Xylene | NV | 82 | 3.4 | U | 2.9 | U | 3.0 | U | 3.1 | U | 2.9 | U | 3.1 | U | 3.0 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 48 | U | 42 | U | 46 | U | 46 | U | 42 | U | 46 | U | 43 | U |
| Diethyl phthalate | NV | 48900 | 128 | J | 110 | U | 120 | U | 110 | U | 1000 | | 120 | U | 693 | |
| Fluorene | NV | 2660 | 48 | U | 42 | U | 46 | U | 46 | U | 42 | U | 46 | U | 43 | U |
| 2-Methylnaphthalene | NV | NV | 48 | U | 42 | U | 46 | U | 46 | U | 42 | U | 46 | U | 43 | U |
| Naphthalene | NV | 79.5 | 48 | U | 42 | U | 46 | U | 46 | U | 42 | U | 46 | U | 43 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.7 | U | 4.1 | U | 4.7 | U | 4.3 | U | 3.5 | U | 5.0 | U | 3.9 | U |
| TPH (C10-C22) | NV | NV | 7.2 | U | 6.2 | U | 6.9 | U | 6.7 | U | 6.2 | U | 6.9 | U | 6.5 | U |
| TPH (>C22-C36) | NV | NV | 7.2 | U | 15.6 | | 6.9 | U | 6.7 | U | 8.41 | J | 6.9 | U | 6.5 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 69.5 | | 78.0 | | 71.3 | | 73.0 | | 79.7 | | 71.1 | | 75.6 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1]NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2]If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

| Client Sample ID: | Soil Screening Levels | | WPOL-SB19-4,12 | | WPOL-SB19-56,72 | | WPOL-SB19FD-29,41 | | WPOL-SB19FD-4,12 | | WPOL-SB19FD-56,72 | | WPOL-SB20-30,39 | | WPOL-SB20-4,9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35686-13 | | F35686-15 | | F35686-17 | | F35686-16 | | F35686-18 | | F35686-20 | | F35686-19 | |
| Date Sampled: | | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 29 | U | 35 | U | 27 | U | 30 | U | 28 | U | 30 | U | 33 | U |
| n-Butylbenzene | NV | 62.1 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| sec-Butylbenzene | NV | 60.6 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| Carbon disulfide | NV | 460 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| Ethylbenzene | NV | 128 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| p-Isopropyltoluene | NV | NV | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| Methylene chloride | NV | 182 | 5.8 | U | 7.1 | U | 5.5 | U | 6.1 | U | 5.6 | U | 6.0 | U | 6.6 | U |
| Methyl ethyl ketone | NV | 31800 | 12 | U | 14 | U | 11 | U | 12 | U | 11 | U | 12 | U | 13 | U |
| Naphthalene | NV | 79.5 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| n-Propylbenzene | NV | 62.1 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| Tetrachloroethylene | NV | 12.5 | 2.3 | U | 2.8 | U | 2.2 | U | 2.4 | U | 2.3 | U | 2.4 | U | 2.6 | U |
| m,p-Xylene | NV | 82 | 2.9 | U | 3.5 | U | 2.7 | U | 3.0 | U | 2.8 | U | 3.0 | U | 3.3 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 41 | U | 46 | U | 44 | U | 39 | U | 46 | U | 45 | U | 44 | U |
| Diethyl phthalate | NV | 48900 | 100 | U | 120 | U | 110 | U | 98 | U | 120 | U | 110 | U | 110 | U |
| Fluorene | NV | 2660 | 41 | U | 46 | U | 44 | U | 39 | U | 46 | U | 45 | U | 44 | U |
| 2-Methylnaphthalene | NV | NV | 41 | U | 46 | U | 44 | U | 39 | U | 46 | U | 45 | U | 44 | U |
| Naphthalene | NV | 79.5 | 41 | U | 46 | U | 44 | U | 39 | U | 46 | U | 45 | U | 44 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 3.5 | U | 4.0 | U | 3.9 | U | 3.4 | U | 3.5 | U | 3.9 | U | 4.0 | U |
| TPH (C10-C22) | NV | NV | 6.0 | U | 7.0 | U | 6.5 | U | 5.9 | U | 16.7 | | 6.8 | U | 6.6 | U |
| TPH (>C22-C36) | NV | NV | 6.0 | U | 7.0 | U | 6.5 | U | 5.9 | U | 12.4 | | 6.8 | U | 6.6 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 81.1 | | 70.8 | | 75.5 | | 83.8 | | 71.5 | | 72.1 | | 75.6 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

**Soil Boring Analytical Data (October 2005)**
**West POL Yard, Holloman AFB, New Mexico**

| Client Sample ID: | Soil Screening Levels | | WPOL-SB20-62,70 | | WPOL-SB21-32,37 | | WPOL-SB21-62,69 | | WPOL-SB21-7,12 | | WPOL-SB21FD-32,37 | | WPOL-SB21FD-62,69 | | WPOL-SB21FD-7,12 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Lab Sample ID: | Basewide UTL | NMED Residential[1] | F35686-21 | | F35686-23 | | F35686-24 | | F35686-22 | | F35686-26 | | F35686-27 | | F35686-25 | |
| Date Sampled: | | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | | 10/11/2005 | |
| Analyte | | | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q | Result[2] | Q |
| **Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Acetone | NV | 28100 | 36 | U | 25 | U | 34 | U | 25 | U | 31 | U | 29 | U | 25 | U |
| n-Butylbenzene | NV | 62.1 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| sec-Butylbenzene | NV | 60.6 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| Carbon disulfide | NV | 460 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| Ethylbenzene | NV | 128 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| Isopropylbenzene (Cumene) | NV | 271 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| p-Isopropyltoluene | NV | NV | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| Methylene chloride | NV | 182 | 7.3 | U | 5.0 | U | 6.7 | U | 5.1 | U | 6.2 | U | 5.9 | U | 5.0 | U |
| Methyl ethyl ketone | NV | 31800 | 15 | U | 10 | U | 13 | U | 10 | U | 12 | U | 12 | U | 10 | U |
| Naphthalene | NV | 79.5 | 2.9 | U | 2.0 | U | 2.7 | U | 3.3 | JB | 2.5 | U | 2.3 | U | 2.0 | U |
| n-Propylbenzene | NV | 62.1 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| 1,2,4-Trimethylbenzene | NV | 58 | 2.9 | U | 2.0 | U | 2.7 | U | 10.4 | | 2.5 | U | 2.3 | U | 3.9 | J |
| 1,3,5-Trimethylbenzene | NV | 24.8 | 2.9 | U | 2.0 | U | 2.7 | U | 9.2 | | 2.5 | U | 2.3 | U | 3.4 | J |
| Tetrachloroethylene | NV | 12.5 | 2.9 | U | 2.0 | U | 2.7 | U | 2.0 | U | 2.5 | U | 2.3 | U | 2.0 | U |
| m,p-Xylene | NV | 82 | 3.6 | U | 2.5 | U | 3.4 | U | 2.5 | U | 3.1 | U | 2.9 | U | 2.5 | U |
| **Semi-Volatile Organic Compounds** | | mg/kg | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | | µg/kg | |
| Dibenzofuran | NV | 142 | 46 | U | 42 | U | 45 | U | 40 | U | 43 | U | 49 | U | 39 | U |
| Diethyl phthalate | NV | 48900 | 110 | U | 110 | U | 110 | U | 99 | U | 110 | U | 120 | U | 97 | U |
| Fluorene | NV | 2660 | 46 | U | 42 | U | 45 | U | 40 | U | 43 | U | 49 | U | 39 | U |
| 2-Methylnaphthalene | NV | NV | 46 | U | 42 | U | 45 | U | 40 | U | 43 | U | 49 | U | 39 | U |
| Naphthalene | NV | 79.5 | 46 | U | 42 | U | 45 | U | 40 | U | 43 | U | 49 | U | 39 | U |
| **Petroleum Hydrocarbons** | | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | | mg/kg | |
| TPH-GRO (C6-C10) | NV | NV | 4.0 | U | 3.5 | U | 4.4 | U | 14.2 | | 3.9 | U | 4.8 | U | 5.61 | J |
| TPH (C10-C22) | NV | NV | 6.9 | U | 6.4 | U | 6.7 | U | 8.40 | J | 6.4 | U | 7.4 | U | 58.0 | |
| TPH (>C22-C36) | NV | NV | 6.9 | U | 6.4 | U | 6.7 | U | 5.9 | U | 6.4 | U | 7.4 | U | 5.9 | U |
| **General Chemistry** | | | % | | % | | % | | % | | % | | % | | % | |
| Solids, Percent | NV | NV | 72.4 | | 77.7 | | 73.1 | | 82.8 | | 76.9 | | 67.7 | | 84.1 | |

Notes:

NMED = New Mexico Environment Department
UTL = Upper Tolerance Limit
µg/kg = micrograms per kilogram
mg/kg = milligrams per kilogram
NV = No Value
Q = Qualifier
U = Not detected
J = Indicates an estimated value

[1] NMED, June 2006. Technical Background Document for Development of Soil Screening Levels, Revision 4.0.
[2] If results are not detected (U) then the value is set at the Method Detection Limit (MDL)
**Bold** value indicate analytes above NMED Soil Screening Levels (Rev 4.0, Jun 2006)

# APPENDIX A
# LABORATORY DATA

## Table C-3. Summary of Analytical Results for West POL Yard Soil Stockpile Samples

| Analyte | Sample ID | | | | | | |
|---|---|---|---|---|---|---|---|
| | WPOLSS01 | WPOLSS02 | WPOLSS03 | WPOLSS04 | WPOLSS05 | WPOLSS06 | WPOLSS07 |
| VOCs (ug/Kg) | | | | | | | |
| 1,2,4-Trimethylbenzene | 7670 | 6950 | 38300 | 27300 | 11300 | 8000 | 7750 |
| 1,3,5-Trimethylbenzene | 2360 | 2110 | 7230 | 4640 | 2880 | 1960 | 2000 |
| Ethylbenzene | 1670 | ND | 6880 | 7510 | 3190 | 1770 | 1840 |
| Isopropylbenzene (Cumene) | 1100 | 682 | 3580 | 2910 | 1630 | 878 | 1050 |
| n-Butylbenzene | 4940 | 2990 | 15100 | 7420 | 4990 | 2200 | 429 J |
| n-Propylbenzene | 1980 | 850 | 6470 | 4850 | 2650 | 1710 | 1990 |
| p-Isopropyltoluene | 2200 | 2260 | 6420 | 3620 | 2740 | 1960 | 1780 |
| sec-Butylbenzene | 2970 | 2750 | 8120 | 4620 | 3220 | 1880 | 2290 |
| Xylenes, total | 759 | 507 | 6760 | 7120 | 4310 | 2540 | ND |
| SVOCs (ug/Kg) | | | | | | | |
| 2-Methylnaphthalene | 3530 | 4380 | 6550 | 5060 | 3350 | 1160 | 1020 |
| Naphthalene | 3340 | 1330 | 10900 | 5960 | 4240 | 2740 | 3360 |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | |
| C06 - C10 | 718 | 2030 | 610 | 1280 | 1620 | 1120 | 900 |
| C10 - C22 | 352 | 1260 | 2240 | 513 | 605 | 465 | 452 |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

## Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples

| Analyte | Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WPOLEX01 | WPOLEX02 | WPOLEX03 | WPOLEX04 | WPOLEX05 | WPOLEX06 | WPOLEX07 | WPOLEX08 |
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | **77100** | **18000** | **2970** | **16** | ND | ND | **15400** | ND |
| 1,3,5-Trimethylbenzene | **15300** | **1670** | **624** | ND | ND | ND | **1920 J** | ND |
| Ethylbenzene | **13400** | **3040** | **2190** | **52** | ND | ND | **6730** | ND |
| Isopropylbenzene (Cumene) | **6950** | **1470** | **930** | **19** | ND | ND | **3650** | ND |
| n-Butylbenzene | **23800** | **5830** | **1010** | **3.3 J** | ND | ND | **5300** | ND |
| n-Propylbenzene | **11900** | **2500** | **1370** | **15** | ND | ND | **5900** | ND |
| p-Isopropyltoluene | **20300** | **5600** | **881** | **1.2 J** | ND | ND | **4420** | ND |
| sec-Butylbenzene | **16200** | **3630** | **1160** | **10** | ND | ND | **6240** | ND |
| Xylenes, total | **6780** | **1480** | **350** | **14** | ND | ND | **533 J** | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | **17100** | **15100** | **5660** | ND | ND | ND | **5630** | ND |
| Naphthalene | **36700** | **6570** | **1750** | **12** | ND | ND | **5030** | ND |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | **925** | **1950** | **840** | ND | ND | ND | **986** | ND |
| C10 - C22 | **3600** | **6190** | **1000** | ND | ND | ND | **3800** | ND |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

## Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples

| Analyte | WPOLEX09 | WPOLEX09A | WPOLEX09B | WPOLEX10 | WPOLEX10D | WPOLEX11 | WPOLEX11A | WPOLEX12 |
|---|---|---|---|---|---|---|---|---|
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | **719** | **437** | ND | ND | ND | ND | ND | **3240** |
| 1,3,5-Trimethylbenzene | ND | **445** | ND | ND | ND | ND | ND | **471** |
| Ethylbenzene | ND | **1800** | ND | **1150** | ND | ND | ND | **1770** |
| Isopropylbenzene (Cumene) | **304 J** | **1070** | ND | **984** | **273 J** | ND | ND | **993** |
| n-Butylbenzene | **491 J** | **732** | ND | **604** | ND | **336 J** | ND | **3500** |
| n-Propylbenzene | **478 J** | **1850** | ND | **1640** | **426 J** | **147 J** | ND | **1780** |
| p-Isopropyltoluene | **417 J** | **1150** | ND | **311 J** | ND | **176 J** | ND | **1360** |
| sec-Butylbenzene | **618** | **2210** | ND | **2140** | **500** | **180 J** | ND | **1990** |
| Xylenes, total | ND | ND | ND | ND | ND | ND | ND | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | **1020** | **2640** | ND | **1490** | **2330** | **10000** | ND | **7510** |
| Naphthalene | **426 J** | **1160** | ND | **757 J** | **963** | **910** | ND | **3390** |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | **350** | **600** | ND | **184** | **174** | **612** | ND | **630** |
| C10 - C22 | **180** | **225** | **36** | **507** | **528** | **2080** | ND | **1960** |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

## Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples

| Analyte | Sample ID | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | WPOLEX12A | WPOLEX13 | WPOLEX14 | WPOLEX15 | WPOLEX16 | WPOLEX17 | WPOLEX18 | WPOLEX18A |
| VOCs (ug/Kg) | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | ND | ND | ND | ND | ND | **24200** | ND |
| 1,3,5-Trimethylbenzene | ND | ND | ND | ND | ND | ND | **99600** | ND |
| Ethylbenzene | ND | ND | ND | ND | ND | ND | **12400** | ND |
| Isopropylbenzene (Cumene) | ND | ND | ND | ND | ND | ND | **6860** | ND |
| n-Butylbenzene | ND | ND | ND | ND | ND | ND | **38900** | ND |
| n-Propylbenzene | ND | ND | ND | ND | ND | ND | **10200** | ND |
| p-Isopropyltoluene | ND | ND | ND | ND | ND | ND | **29400** | ND |
| sec-Butylbenzene | ND | ND | ND | ND | ND | ND | **21600** | ND |
| Xylenes, total | ND | ND | ND | ND | ND | ND | **12700** | ND |
| SVOCs (ug/Kg) | | | | | | | | |
| 2-Methylnaphthalene | ND | ND | ND | ND | ND | ND | **31100** | ND |
| Naphthalene | ND | ND | ND | ND | ND | ND | **46500** | ND |
| Petroleum Hydrocarbons (mg/Kg) | | | | | | | | |
| C06 - C10 | ND | ND | **41** | **175** | ND | ND | **7790** | ND |
| C10 - C22 | ND | ND | **65** | **147** | ND | ND | **23600** | ND |
| C22 - C32 | ND | ND | ND | ND | ND | ND | ND | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

## Table C-4. Summary of Analytical Results for West POL Yard Excavation Confirmation Samples

| Analyte | WPOLEX19 |
|---|---|
| VOCs (ug/Kg) | |
| 1,2,4-Trimethylbenzene | **103000** |
| 1,3,5-Trimethylbenzene | **22700** |
| Ethylbenzene | **16000** |
| Isopropylbenzene (Cumene) | **7640** |
| n-Butylbenzene | **36800** |
| n-Propylbenzene | **11400** |
| p-Isopropyltoluene | **31000** |
| sec-Butylbenzene | ND |
| Xylenes, total | **17500** |
| SVOCs (ug/Kg) | |
| 2-Methylnaphthalene | **43700** |
| Naphthalene | **45100** |
| Petroleum Hydrocarbons (mg/Kg) | |
| C06 - C10 | **13900** |
| C10 - C22 | **35000** |
| C22 - C32 | ND |

Notes:
ND - analyte not detected
mg/Kg - milligrams per kilogram
ug/Kg - micrograms per kilogram

**ASSOCIATED LABORATORIES**
806 North Batavia - Orange, California 92868 - 714/771-6900
FAX 714/538-1209

CLIENT Foster Wheeler Environmental Corp. (7935)
ATTN: James Morning
P.O. Box 540
HAFB, NM 88330

LAB REQUEST 103804
REPORTED 12/23/2002
RECEIVED 12/17/2002

PROJECT West POL

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

| Order No. | Client Sample Identification |
|---|---|
| 399498 | WPOLEX01 |
| 399499 | WPOLEX02 |
| 399500 | WPOLEX03 |
| 399501 | WPOLEX04 |
| 399502 | WPOLEX05 |
| 399503 | WPOLEX06 |
| 399504 | WPOLEX07 |
| 399505 | WPOLEX08 |
| 399506 | WPOLEX09 |
| 399507 | WPOLEX10 |
| 399508 | WPOLEX10D |
| 399509 | WPOLEX11 |
| 399510 | WPOLEX12 |

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

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*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

CLIENT Foster Wheeler Environmental Corp. (7935)
ATTN: James Morning
P.O. Box 540
HAFB, NM 88330

LAB REQUEST 103804

REPORTED 12/23/2002
RECEIVED 12/17/2002

PROJECT West POL

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

| Order No. | Client Sample Identification |
|---|---|
| 399511 | WPOLEX13 |
| 399512 | WPOLEX14 |
| 399513 | WPOLEX15 |
| 399514 | WPOLEX16 |
| 399515 | WPOLEX17 |
| 399516 | WPOLEX18 |
| 399517 | WPOLEX19 |
| 399518 | Laboratory Method Blank |

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward B. Behare, Ph.D.
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

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*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

**Order #:** 399498
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX01

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 925 | 10 | 200.0 | mg/Kg | 12/17/02 | AF |
| C10 - C22 | 3600 | 10 | 300.0 | mg/Kg | 12/17/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/17/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 77100 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | 15300 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 500 | 100000.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 500 | 50000.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399498
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX01

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 500 | 100000.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 13400 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 6950 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 23800 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 11900 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 36700 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 20300 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399498
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX01

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 16200 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 500 | 25000.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | 6780 | 500 | 2500.0 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 107 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 119 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 131 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 92 | | | % | 70 - 130 | |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 17100 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399498
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX01

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399498
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX01

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 8020 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 79 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 82 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 40 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 102 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 54 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 81 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 1320 | 100 | 500.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 78 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399499
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:39
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX02

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 1950 | 10 | 200.0 | mg/Kg | 12/17/02 | AF |
| C10 - C22 | 6190 | 10 | 300.0 | mg/Kg | 12/17/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/17/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 18000 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | 1670 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 96 | 19200.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 96 | 9600.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399499
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:39
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX02

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 96 | 19200.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 3040 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 1470 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 5830 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 2500 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 6570 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 5600 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399499 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX02
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:39
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 3630 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 96 | 4800.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | 1480 | 96 | 480.0 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 100 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 115 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 130 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 90 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 15100 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399499 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX02
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:39
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399499 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX02
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:39
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 7050 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 81 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 79 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 42 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 116 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 51 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 74 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 1070 | 50 | 250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 59 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399500
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX03

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 840 | 10 | 200.0 | mg/Kg | 12/17/02 | AF |
| C10 - C22 | 1000 | 10 | 300.0 | mg/Kg | 12/17/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/17/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 2970 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | 624 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 107 | 21400.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 107 | 10700.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399500
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX03

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 107 | 21400.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 2190 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 930 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 1010 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 1370 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 1750 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 881 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399500 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX03
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:50
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 1160 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 107 | 5350.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | 350 | 107 | 535.0 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 110 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 116 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 119 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 92 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 5660 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399500
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX03

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399500
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX03

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 2540 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 114 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 84 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 59 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 92 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 67 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 109 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 1030 | 100 | 500.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 73 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399501
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:59
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX04

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 16 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399501
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:59
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX04

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 52 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 19 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 3.3 J | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 15 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 12 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 1.2 J | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399501 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX04
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:59
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 10 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | 14 | 1 | 5 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 108 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 118 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 111 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399501
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:59
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX04

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399501 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX04
**Date Sampled:** 12/16/2002
**Time Sampled:** 07:59
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 85 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 59 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 44 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 55 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 44 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 81 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 122 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399502
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:09
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX05

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 100 | 20000.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 100 | 10000.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399502
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:09
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX05

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 100 | 20000.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399502 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX05
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:09
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 100 | 5000.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 111 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 120 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 116 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 89 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399502
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:09
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX05

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399502
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:09
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX05

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 97 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 63 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 46 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 59 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 48 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 108 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | ND | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 105 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399503 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX06
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:19
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399503
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:19
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX06

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399503
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:19
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX06

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 113 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 118 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 108 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 105 | | | % | 70 - 130 | |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399503
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:19
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX06

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399503
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:19
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX06

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 78 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 56 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 42 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 54 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 43 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 90 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 108 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399504
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:28
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX07

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 986 | 10 | 200.0 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 3800 | 10 | 300.0 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 15400 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | 1920 J | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 464 | 92800.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 464 | 46400.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399504
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:28
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX07

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 464 | 92800.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 6730 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 3650 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 5300 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 5900 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 5030 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 4420 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399504
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:28
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX07

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 6240 | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 464 | 23200.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | 533 J | 464 | 2320.0 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 113 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 119 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 111 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 98 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 5630 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399504
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:28
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX07

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399504
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:28
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX07

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 3940 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 79 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 76 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 60 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 115 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 68 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 93 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 627 | 50 | 250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 65 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399505
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:38
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399505 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX08
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:38
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399505 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX08
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:38
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/17/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 102 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 106 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 105 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399505 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX08
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:38
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399505
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:38
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 102 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 81 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 67 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 82 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 67 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 91 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 105 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399506
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:47
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX09

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 350 | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 180 | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | 719 | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 100 | 20000.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 100 | 10000.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399506
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:47
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX09

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 100 | 20000.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 398 J | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 304 J | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 491 J | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 478 J | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 765 | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 417 J | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399506
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:47
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX09

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 618 | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 100 | 5000.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | ND | 100 | 500.0 | ug/Kg | 12/17/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 109 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 118 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 115 | % | 70 - 130 |
| Toluene-d8 (sur) | 94 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 1020 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399506
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:47
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX09

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399506
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:47
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX09

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 426 J | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 88 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 65 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 51 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 69 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 54 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 87 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 39 | 2 | 10.0 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 66 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399507
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX10

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 184 | 5 | 100.0 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 507 | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1,1-Trichloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloroethene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,1-Dichloropropene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2,3-Trichloropropane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dibromoethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,2-Dichloropropane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,3-Dichloropropane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dichlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 1,4-Dioxane | ND | 95 | 19000.0 | ug/Kg | 12/17/02 | AM |
| 1-Chlorohexane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 2,2-Dichloropropane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 2-Butanone (MEK) | ND | 95 | 9500.0 | ug/Kg | 12/17/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 2-Chlorotoluene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 2-Hexanone | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 4-Chlorotoluene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| 4-Methyl -2- Pentanone | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Acetone | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399507 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX10
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Acrolein | ND | 95 | 19000.0 | ug/Kg | 12/17/02 | AM |
| Acrylonitrile | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Allyl chloride | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Benzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Benzyl chloride | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Bromobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Bromochloromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Bromodichloromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Bromoform | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Bromomethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Carbon Disulfide | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Carbon tetrachloride | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Chlorobenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Chloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Chloroform | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Chloromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| cis-1,2-Dichloroethene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| cis-1,3-Dichloropropene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Dibromochloromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Dibromomethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Dichlorodifluoromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Ethyl benzene | 1150 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Ethyl methacrylate | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Hexachlorobutadiene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Iodomethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Isopropylbenzene (Cumene) | 984 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Methacrylonitrile | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Methyl methacrylate | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Methylene chloride | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| n-Butylbenzene | 604 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| n-Propylbenzene | 1640 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Naphthalene | 2690 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| p-Isopropyltoluene | 311 J | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Pentachloroethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Propionitrile | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399507 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX10
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 2140 | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Styrene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| tert-Butylbenzene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Tetrachloroethene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Toluene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| trans-1,2-Dichloroethene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| trans-1,3-Dichloropropene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Trichloroethene | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Trichlorofluoromethane | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Vinyl acetate | ND | 95 | 4750.0 | ug/Kg | 12/17/02 | AM |
| Vinyl chloride | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |
| Xylenes, total | ND | 95 | 475.0 | ug/Kg | 12/17/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 106 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 112 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 119 | % | 70 - 130 |
| Toluene-d8 (sur) | 92 | % | 70 - 130 |

| **8270C Acid/Base/Neutral Extractables** | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylnaphthalene | 1490 | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399507
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX10

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399507
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX10

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Naphthalene | 757 J | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/18/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/18/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 106 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 65 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 52 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 69 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 55 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 99 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | 359 | 50 | 250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 68 | | | % | 55 - 156 | |

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**Order #:** 399508
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX10D

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 174 | 5 | 100.0 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 528 | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 92 | 18400.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 92 | 9200.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399508 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX10D
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 92 | 18400.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | 303 J | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | 273 J | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | 426 J | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | 963 | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399508 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX10D
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 500 | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 92 | 4600.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 92 | 460.0 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 107 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 119 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 114 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 96 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | 2330 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399508 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX10D
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399508
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 08:56
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX10D

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | 1180 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 112 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 89 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 79 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 99 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 76 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 116 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 146 | 25 | 125.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 66 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399509
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:05
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX11

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 612 | 5 | 100.0 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 2080 | 5 | 150.0 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 96 | 19200.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 96 | 9600.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399509 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX11
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:05
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 96 | 19200.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | 143 J | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | 336 J | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | 147 J | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | 910 | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | 176 J | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399509 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX11
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:05
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 180 J | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 96 | 4800.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 96 | 480.0 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 111 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 123 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 114 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 92 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | 10000 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399509 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX11
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:05
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399509 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX11
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:05
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | 4750 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 109 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 97 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 90 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 124 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 95 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 113 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 617 | 100 | 500.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 69 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399510
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:15
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX12

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 630 | 5 | 100.0 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 1960 | 5 | 150.0 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | 3240 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | 471 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 89 | 17800.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 89 | 8900.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399510
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:15
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX12

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 89 | 17800.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | 1770 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | 993 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | 3500 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | 1780 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | 3390 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | 1360 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399510 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX12
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:15
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 1990 | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 89 | 4450.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 89 | 445.0 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 109 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 116 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 118 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 91 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | 7510 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399510 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX12
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:15
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399510 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX12
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:15
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | 3660 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 111 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 89 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 71 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 110 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 76 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 109 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 274 | 50 | 250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 65 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399511
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:24
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX13

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399511 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX13
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:24
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399511 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX13
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:24
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 112 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 116 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 109 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 104 | | | % | 70 - 130 | |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399511
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:24
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX13

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399511 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX13
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:24
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 93 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 67 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 59 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 66 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 62 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 86 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 82 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399512
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:33
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX14

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 41 | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 65 | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399512
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:33
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX14

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399512
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:33
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX14

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 104 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 116 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 108 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399512
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:33
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX14

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399512
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:33
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX14

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 88 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 61 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 51 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 61 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 55 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 79 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 13 | 1 | 5 | mg/Kg | 12/17/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 89 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399513
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:43
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX15

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 175 | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | 147 | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 90 | 18000.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 90 | 9000.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399513
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:43
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX15

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 90 | 18000.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399513
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:43
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX15

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 90 | 4500.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 90 | 450.0 | ug/Kg | 12/18/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 119 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 124 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 111 | % | 70 - 130 |
| Toluene-d8 (sur) | 96 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399513
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:43
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX15

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399513
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:43
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX15

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 103 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 67 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 64 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 73 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 68 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 81 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 33 | 2 | 10.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 60 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399514
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:52
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX16

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399514 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOLEX16
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:52
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399514
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:52
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX16

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 110 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 114 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 108 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399514
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:52
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX16

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399514
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 09:52
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX16

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/20/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/20/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 78 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 59 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 46 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 56 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 47 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 81 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 99 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399515
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:01
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX17

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/18/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/18/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/18/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399515
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:01
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX17

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399515
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:01
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX17

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/18/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 115 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 112 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 111 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 106 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399515
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:01
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX17

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399515
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:01
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX17

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 87 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 81 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 62 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 76 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 64 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 84 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 88 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399516
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX18

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 7790 | 50 | 1000.0 | mg/Kg | 12/19/02 | AF |
| C10 - C22 | 23600 | 50 | 1500.0 | mg/Kg | 12/19/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/19/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | 24200 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | 99600 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 473 | 94600.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 473 | 47300.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399516
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX18

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 473 | 94600.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | 12400 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | 6860 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | 38900 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | 10200 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | 46500 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | 29400 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399516
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX18

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | 21600 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 473 | 23650.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | 12700 | 473 | 2365.0 | ug/Kg | 12/18/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 104 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 116 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 124 | % | 70 - 130 |
| Toluene-d8 (sur) | 93 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | 31100 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399516
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX18

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399516
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX18

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | 14500 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 53 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 70 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 26 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 207 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 40 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 69 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | 1370 | 250 | 1250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 78 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399517
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:20
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX19

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 13900 | 50 | 1000.0 | mg/Kg | 12/19/02 | AF |
| C10 - C22 | 35000 | 50 | 1500.0 | mg/Kg | 12/19/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/19/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1,1-Trichloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloroethene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,1-Dichloropropene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2,3-Trichloropropane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2,4-Trimethylbenzene | 103000 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dibromoethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,2-Dichloropropane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,3,5-Trimethylbenzene | 22700 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,3-Dichloropropane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dichlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 1,4-Dioxane | ND | 452 | 90400.0 | ug/Kg | 12/18/02 | AM |
| 1-Chlorohexane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 2,2-Dichloropropane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 2-Butanone (MEK) | ND | 452 | 45200.0 | ug/Kg | 12/18/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 2-Chlorotoluene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 2-Hexanone | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 4-Chlorotoluene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| 4-Methyl -2- Pentanone | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Acetone | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399517
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:20
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX19

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Acrolein | ND | 452 | 90400.0 | ug/Kg | 12/18/02 | AM |
| Acrylonitrile | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Allyl chloride | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Benzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Benzyl chloride | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Bromobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Bromochloromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Bromodichloromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Bromoform | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Bromomethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Carbon Disulfide | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Carbon tetrachloride | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Chlorobenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Chloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Chloroform | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Chloromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| cis-1,2-Dichloroethene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| cis-1,3-Dichloropropene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Dibromochloromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Dibromomethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Dichlorodifluoromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Ethyl benzene | 16000 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Ethyl methacrylate | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Hexachlorobutadiene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Iodomethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Isopropylbenzene (Cumene) | 7640 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Methacrylonitrile | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Methyl methacrylate | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Methylene chloride | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| n-Butylbenzene | 36800 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| n-Propylbenzene | 11400 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Naphthalene | 45100 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| p-Isopropyltoluene | 31000 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Pentachloroethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Propionitrile | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399517
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:20
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX19

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| sec-Butylbenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Styrene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| tert-Butylbenzene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Tetrachloroethene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Toluene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| trans-1,2-Dichloroethene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| trans-1,3-Dichloropropene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Trichloroethene | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Trichlorofluoromethane | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Vinyl acetate | ND | 452 | 22600.0 | ug/Kg | 12/18/02 | AM |
| Vinyl chloride | ND | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |
| Xylenes, total | 17500 | 452 | 2260.0 | ug/Kg | 12/18/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 105 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 110 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 133 | % | 70 - 130 |
| Toluene-d8 (sur) | 106 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylnaphthalene | 43700 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399517
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:20
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX19

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 399517
**Matrix:** SOLID
**Date Sampled:** 12/16/2002
**Time Sampled:** 10:20
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX19

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Naphthalene | 19500 | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/19/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/19/02 | DP |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | 2220 | 250 | 1250.0 | mg/Kg | 12/18/02 | LT |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 64 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

# ASSOCIATED LABORATORIES

## NARRATIVE

Date: December 31, 2002

**Narrative for Lab Request LR:** 103804

**Client Project Identification:**
Project: West POL
This narrative includes all samples as shown on the attached Lab Request final report.

**Analyses Requested:**

- EPA 8015M – Total Petroleum Hydrocarbons.
- EPA 8015 – Carbon Chain I.
- EPA 8260B – Volatile Organic Compounds.
- EPA 8270C – Acid & Base/Neutral Extractables.

**Data Validation:**

**Holding Times**
All EPA designated holding times were met.

**Calibration**
All QC data, including MS/MSD, LCS, Method Blanks, and Surrogate Recoveries, were within control limits.

**Quality Control Samples**
Following is a summary of the QC data, along with an explanation of any samples that were outside QC limits and corrective actions that were taken:

- **EPA 8260:** Surrogate recoveries for p-Bromofluorobenze were outside limits in Samples #498 & 517, due to matrix interference. Corrective action: No corrective action necessary. All other QC data conformed. Therefore, the analytical batch was accepted.

- **EPA 8270:** The MS for 4-Nitrophenol was outside limits, due to matrix interference. Also, the following surrogate were outside limits: Nitrobenzene-d5 in the MS/MSD and Samples #509 and 516; and 2-Fluorobiphenyl in the MS. Corrective action: No corrective action necessary. All other QC data conformed, including the LCS and Method Blank. Furthermore, the bulk of MS/MSD and surrogate recoveries conformed. Therefore, the analytical batch was accepted.

- **EPA 8015M (TPH) & 8015 (CCI):** All QC data was within control limits

**Other Anomalies or Comments**
The reporting limit (DLR) is adjusted if dilution of the sample is necessary.

*Associated Laboratories*
*806 N. Batavia*
*Orange, CA 92868*

*Phone: 714-771-6900*
*Fax: 714-538-1209*

**LAB REQUEST: 103804**

**CLIENT: Foster Wheeler Environmental Corp.**

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**EPA 8270 - Acid & Base/Neutral Extractables ..... 400 - 504**

**ASSOCIATED LABORATORIES**
*806 North Batavia - Orange, California 92868 - 714/771-6900* *FAX 714/538-1209*

CLIENT Foster Wheeler Environmental Corp. (7935)
ATTN: James Morning
P.O. Box 540
HAFB, NM 88330

LAB REQUEST 104098
REPORTED 12/31/2002
RECEIVED 12/20/2002

PROJECT WP01

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

| Order No. | Client Sample Identification |
|---|---|
| 400609 | WPOLEX9A |
| 400610 | WPOLEX9B |
| 400611 | WPOLSS08 |
| 400612 | Laboratory Method Blank |

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

*NOTE: Unless notified in writing , all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

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**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 600 | 1 | 20 | mg/Kg | 12/23/02 | AF |
| C10 - C22 | 225 | 1 | 30 | mg/Kg | 12/23/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/23/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,1-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trimethylbenzene | 437 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromoethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3,5-Trimethylbenzene | 445 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dioxane | ND | 100 | 20000.0 | ug/Kg | 12/23/02 | AM |
| 1-Chlorohexane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2-Butanone (MEK) | ND | 100 | 10000.0 | ug/Kg | 12/23/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| 2-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2-Hexanone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 4-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 4-Methyl -2- Pentanone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acetone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acetonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acrolein | ND | 100 | 20000.0 | ug/Kg | 12/23/02 | AM |
| Acrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Allyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Benzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Benzyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromodichloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromoform | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Carbon Disulfide | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Carbon tetrachloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloroform | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dibromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dibromomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dichlorodifluoromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Ethyl benzene | 1800 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Ethyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Hexachlorobutadiene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Iodomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Isopropylbenzene (Cumene) | 1070 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| m and p-Xylene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methacrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methylene chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| n-Butylbenzene | 732 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| n-Propylbenzene | 1850 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Naphthalene | 2690 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| o-Xylene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| p-Isopropyltoluene | 1150 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Pentachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Propionitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| sec-Butylbenzene | 2210 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Styrene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| tert-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Tetrachloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Toluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Trichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Trichlorofluoromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Vinyl acetate | ND | 100 | 5000.0 | ug/Kg | 12/23/02 | AM |
| Vinyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Xylenes, total | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 116 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 106 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 121 | % | 70 - 130 |
| Toluene-d8 (sur) | 103 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylnaphthalene | 2640 | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Naphthalene | 1160 | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400609
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 07:50
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9A

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 DP |
| **Surrogates** | | | | **Units** | **Control Limits** |
| 2,4,6-Tribromophenol (sur) | 99 | | | % | 17 - 122 |
| 2-Fluorobiphenyl (sur) | 61 | | | % | 30 - 115 |
| 2-Fluorophenol (sur) | 45 | | | % | 25 - 121 |
| Nitrobenzene-d5 (sur) | 63 | | | % | 23 - 120 |
| Phenol-d5 (sur) | 49 | | | % | 24 - 113 |
| Terphenyl-d14 (sur) | 83 | | | % | 18 - 137 |
| **8015M - Total Petroleum Hydrocarbons** | | | | | |
| Gasoline | 141 | 25 | 125.0 | mg/Kg | 12/23/02 LT |
| **Surrogates** | | | | **Units** | **Control Limits** |
| a,a,a-Trifluorotoluene | 82 | | | % | 55 - 156 |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/24/02 | AF |
| C10 - C22 | 36 | 1 | 30 | mg/Kg | 12/24/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/24/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dioxane | ND | 1 | 200.0 | ug/Kg | 12/23/02 | AM |
| 1-Chlorohexane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100.0 | ug/Kg | 12/23/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| 2-Chlorotoluene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 2-Hexanone | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Acetone | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Acetonitrile | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Acrolein | ND | 1 | 200.0 | ug/Kg | 12/23/02 | AM |
| Acrylonitrile | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Allyl chloride | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Benzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Benzyl chloride | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Bromobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Bromochloromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Bromodichloromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Bromoform | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Bromomethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Carbon Disulfide | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Carbon tetrachloride | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Chlorobenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Chloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Chloroform | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Chloromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Dibromochloromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Dibromomethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Ethyl benzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Ethyl methacrylate | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Iodomethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| m and p-Xylene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Methacrylonitrile | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Methyl methacrylate | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Methylene chloride | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| n-Butylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| n-Propylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Naphthalene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| o-Xylene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Pentachloroethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Propionitrile | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| sec-Butylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Styrene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| tert-Butylbenzene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Tetrachloroethene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Toluene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Trichloroethene | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Vinyl acetate | ND | 1 | 50.0 | ug/Kg | 12/23/02 | AM |
| Vinyl chloride | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |
| Xylenes, total | ND | 1 | 5.0 | ug/Kg | 12/23/02 | AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 118 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 110 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 114 | % | 70 - 130 |
| Toluene-d8 (sur) | 107 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

**8270C Acid/Base/Neutral Extractables**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylnaphthalene | 624 | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400610
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLEX9B

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 DP |
| **Surrogates** | | | | **Units** | **Control Limits** |
| 2,4,6-Tribromophenol (sur) | 103 | | | % | 17 - 122 |
| 2-Fluorobiphenyl (sur) | 64 | | | % | 30 - 115 |
| 2-Fluorophenol (sur) | 52 | | | % | 25 - 121 |
| Nitrobenzene-d5 (sur) | 69 | | | % | 23 - 120 |
| Phenol-d5 (sur) | 53 | | | % | 24 - 113 |
| Terphenyl-d14 (sur) | 88 | | | % | 18 - 137 |
| **8015M - Total Petroleum Hydrocarbons** | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/23/02 LT |
| **Surrogates** | | | | **Units** | **Control Limits** |
| a,a,a-Trifluorotoluene | 95 | | | % | 55 - 156 |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | 213 | 1 | 20 | mg/Kg | 12/24/02 | AF |
| C10 - C22 | 127 | 1 | 30 | mg/Kg | 12/24/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/24/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,1-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trimethylbenzene | 2340 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromoethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3,5-Trimethylbenzene | 618 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 1,4-Dioxane | ND | 100 | 20000.0 | ug/Kg | 12/23/02 | AM |
| 1-Chlorohexane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2-Butanone (MEK) | ND | 100 | 10000.0 | ug/Kg | 12/23/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| 2-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 2-Hexanone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 4-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| 4-Methyl -2- Pentanone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acetone | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acetonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Acrolein | ND | 100 | 20000.0 | ug/Kg | 12/23/02 | AM |
| Acrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Allyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Benzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Benzyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromodichloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromoform | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Bromomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Carbon Disulfide | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Carbon tetrachloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloroform | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Chloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dibromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dibromomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Dichlorodifluoromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Ethyl benzene | 282 J | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Ethyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Hexachlorobutadiene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Iodomethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Isopropylbenzene (Cumene) | 248 J | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| m and p-Xylene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methacrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Methylene chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| n-Butylbenzene | 533 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| n-Propylbenzene | 469 J | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Naphthalene | 1230 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| o-Xylene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| p-Isopropyltoluene | 636 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Pentachloroethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Propionitrile | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| sec-Butylbenzene | 806 | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Styrene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| tert-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Tetrachloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Toluene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Trichloroethene | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Trichlorofluoromethane | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Vinyl acetate | ND | 100 | 5000.0 | ug/Kg | 12/23/02 | AM |
| Vinyl chloride | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |
| Xylenes, total | ND | 100 | 500.0 | ug/Kg | 12/23/02 | AM |

| **Surrogates** | | **Units** | **Control Limits** |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 123 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 107 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 110 | % | 70 - 130 |
| Toluene-d8 (sur) | 102 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

**8270C Acid/Base/Neutral Extractables**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylnaphthalene | 1210 | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/25/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400611
**Matrix:** SOLID
**Date Sampled:** 12/18/2002
**Time Sampled:** 08:10
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOLSS08

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/25/02 DP |
| **Surrogates** | | | | **Units** | **Control Limits** |
| 2,4,6-Tribromophenol (sur) | 100 | | | % | 17 - 122 |
| 2-Fluorobiphenyl (sur) | 69 | | | % | 30 - 115 |
| 2-Fluorophenol (sur) | 53 | | | % | 25 - 121 |
| Nitrobenzene-d5 (sur) | 75 | | | % | 23 - 120 |
| Phenol-d5 (sur) | 59 | | | % | 24 - 113 |
| Terphenyl-d14 (sur) | 98 | | | % | 18 - 137 |
| **8015M - Total Petroleum Hydrocarbons** | | | | | |
| Gasoline | 33 | 2 | 10.0 | mg/Kg | 12/23/02 LT |
| **Surrogates** | | | | **Units** | **Control Limits** |
| a,a,a-Trifluorotoluene | 74 | | | % | 55 - 156 |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/23/02 | AF |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/23/02 | AF |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/23/02 | AF |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/23/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/23/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/23/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/23/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/23/02 AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/23/02 AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/23/02 AM |

| Surrogates | | Units | Control Limits |
|---|---|---|---|
| 1,2-Dichloroethane-d4 (sur) | 115 | % | 70 - 130 |
| Dibromofluoromethane (sur) | 103 | % | 70 - 130 |
| p-Bromofluorobenzene (sur) | 109 | % | 70 - 130 |
| Toluene-d8 (sur) | 112 | % | 70 - 130 |

**8270C Acid/Base/Neutral Extractables**

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

**8270C Acid/Base/Neutral Extractables**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 1,2-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 1,3-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 1,4-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2,4,5-Trichlorophenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 2,4,6-Trichlorophenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 2,4-Dichlorophenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2,4-Dimethylphenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrophenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 2,4-Dinitrotoluene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2,6-Dinitrotoluene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2-Chloronaphthalene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2-Chlorophenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2-Methylnaphthalene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2-Methylphenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 2-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 2-Nitrophenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 3,3-Dichlorobenzidine | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 3-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 4-Bromophenyl-phenylether | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 4-Chloro-3-methylphenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 4-Chloroaniline | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 4-Methylphenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| 4-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| 4-Nitrophenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| Acenaphthene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Acenaphthylene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Anthracene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzidine | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzo(a)anthracene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Benzo(a)pyrene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzo(b)fluoranthene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzo(g,h,i)perylene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzo(k)fluoranthene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzoic Acid | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Benzyl alcohol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroethyl)ether | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Butylbenzylphthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Chrysene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Di-n-butylphthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Di-n-octylphthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Dibenz(a,h)anthracene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Dibenzofuran | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Diethylphthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Dimethylphthalate | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Fluoranthene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Fluorene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Hexachlorobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Hexachlorobutadiene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Hexachlorocyclopentadiene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Hexachloroethane | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Isophorone | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| N-Nitrosodiphenylamine | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Naphthalene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Nitrobenzene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Pentachlorophenol | ND | 1 | 1665 | ug/Kg | 12/25/02 | DP |
| Phenanthrene | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |
| Phenol | ND | 1 | 333 | ug/Kg | 12/25/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 400612
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | |
| Pyrene | ND | 1 | 333 | ug/Kg | 12/25/02 DP |
| **Surrogates** | | | | **Units** | **Control Limits** |
| 2,4,6-Tribromophenol (sur) | 64 | | | % | 17 - 122 |
| 2-Fluorobiphenyl (sur) | 67 | | | % | 30 - 115 |
| 2-Fluorophenol (sur) | 49 | | | % | 25 - 121 |
| Nitrobenzene-d5 (sur) | 65 | | | % | 23 - 120 |
| Phenol-d5 (sur) | 55 | | | % | 24 - 113 |
| Terphenyl-d14 (sur) | 85 | | | % | 18 - 137 |
| **8015M - Total Petroleum Hydrocarbons** | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/23/02 LT |
| **Surrogates** | | | | **Units** | **Control Limits** |
| a,a,a-Trifluorotoluene | 58 | | | % | 55 - 156 |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**ASSOCIATED LABORATORIES**
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

# CHAIN OF CUSTODY RECORD

Date [illegible] Page 1 of 1

104098

CLIENT [illegible]
ADDRESS [illegible]

PROJECT MANAGER [illegible]
PHONE NUMBER [illegible]
SAMPLERS: (Signature) [illegible]

PROJECT NAME [illegible]

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ___ Cooled ___ Frozen ___
Same Day ____ 24 Hr. ✓
Regular ____ 48 Hr. ____

| SAMPLE NUMBER | LOCATION DESCRIPTION | DATE | TIME | SAMPLE TYPE WATER | AIR | SOLID | NO OF CNTNRS | SUSP. CONTAM. | TESTS REQUIRED |
|---|---|---|---|---|---|---|---|---|---|
| [illegible] | [illegible] | [illegible] | [illegible] | | | X | 4 | | [illegible] |
| [illegible] | [illegible] | [illegible] | [illegible] | | | X | 4 | | ↓ |
| [illegible] | [illegible] | [illegible] | [illegible] | | | X | 3 | | ↓ |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

| Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|
| [illegible] | Sample rec. Miller | 12/20/02 2:50 |
| Relinquished by: (Signature) | Received by Laboratory for analysis: (Signature) | Date/Time |
| | | |

Special Instructions: [illegible]

I hereby authorize the performance of the above indicated work.
[illegible]

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

**ASSOCIATED LABORATORIES**
*806 North Batavia - Orange, California 92868 - 714/771-6900* *FAX 714/538-1209*

CLIENT Foster Wheeler Environmental Corp. (7935)
ATTN: James Morning
P.O. Box 540
HAFB, NM 88330

LAB REQUEST 104374
REPORTED 12/29/2002
RECEIVED 12/27/2002

PROJECT WPOL

SUBMITTER Client

COMMENTS

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

| Order No. | Client Sample Identification |
|---|---|
| 402121 | WPOL-EX-11A |
| 402122 | WPOL-EX-12A |
| 402123 | WPOL-EX-18A |
| 402124 | Laboratory Method Blank |

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

*NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.*

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*TESTING & CONSULTING*
*Chemical*
*Microbiological*
*Environmental*

**Order #:** 402121
**Matrix:** SOLID
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOL-EX-11A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/27/02 | CH |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/27/02 | CH |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/27/02 | CH |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/27/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/27/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402121 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-11A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:00
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst |
|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/27/02 AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/27/02 AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402121 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-11A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:00
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/27/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 100 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 104 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 108 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402121
**Matrix:** SOLID
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:00
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOL-EX-11A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402121 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-11A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:00
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 88 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 46 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 34 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 29 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 55 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 89 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | ND | 1 | 5 | mg/Kg | 12/27/02 | CH |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 100 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402122
**Matrix:** SOLID
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:30
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOL-EX-12A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/27/02 | CH |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/27/02 | CH |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/27/02 | CH |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/27/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/27/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402122 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-12A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:30
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/27/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402122 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-12A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:30
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/27/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 113 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 107 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 112 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 100 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402122 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-12A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:30
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402122 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-12A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:30
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 77 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 42 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 29 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 30 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 45 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 76 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | ND | 1 | 5 | mg/Kg | 12/27/02 | CH |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 100 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402123 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-18A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:57
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/27/02 | CH |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/27/02 | CH |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/27/02 | CH |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1,1-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichloropropane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromoethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,4-Dichlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 1,4-Dioxane | ND | 100 | 20000.0 | ug/Kg | 12/27/02 | AM |
| 1-Chlorohexane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 2,2-Dichloropropane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 2-Butanone (MEK) | ND | 100 | 10000.0 | ug/Kg | 12/27/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 2-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 2-Hexanone | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 4-Chlorotoluene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| 4-Methyl -2- Pentanone | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Acetone | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402123
**Matrix:** SOLID
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:57
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** WPOL-EX-18A

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Acrolein | ND | 100 | 20000.0 | ug/Kg | 12/27/02 | AM |
| Acrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Allyl chloride | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Benzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Benzyl chloride | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Bromobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Bromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Bromodichloromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Bromoform | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Bromomethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Carbon Disulfide | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Carbon tetrachloride | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Chlorobenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Chloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Chloroform | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Chloromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| cis-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| cis-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Dibromochloromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Dibromomethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Dichlorodifluoromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Ethyl benzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Ethyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Hexachlorobutadiene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Iodomethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Isopropylbenzene (Cumene) | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| m and p-Xylene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Methacrylonitrile | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Methyl methacrylate | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Methylene chloride | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| n-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| n-Propylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Naphthalene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| o-Xylene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| p-Isopropyltoluene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402123 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-18A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:57
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Propionitrile | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| sec-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Styrene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| tert-Butylbenzene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Tetrachloroethene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Toluene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| trans-1,2-Dichloroethene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| trans-1,3-Dichloropropene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Trichloroethene | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Trichlorofluoromethane | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Vinyl acetate | ND | 100 | 5000.0 | ug/Kg | 12/27/02 | AM |
| Vinyl chloride | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| Xylenes, total | ND | 100 | 500.0 | ug/Kg | 12/27/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 102 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 100 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 111 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 103 | | | % | 70 - 130 | |
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,2-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,3-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 1,4-Dichlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4,5-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4,6-Trichlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dichlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dimethylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2,6-Dinitrotoluene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chloronaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Chlorophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylnaphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 2-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402123 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-18A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:57
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 2-Nitrophenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3,3-Dichlorobenzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 3-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Bromophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloro-3-methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chloroaniline | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Methylphenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitroaniline | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| 4-Nitrophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Acenaphthylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzidine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(a)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(b)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(g,h,i)perylene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzo(k)fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzoic Acid | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Benzyl alcohol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethyl)ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Butylbenzylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Chrysene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-butylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Di-n-octylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenz(a,h)anthracene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dibenzofuran | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Diethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Dimethylphthalate | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluoranthene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Fluorene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402123 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** WPOL-EX-18A
**Date Sampled:** 12/26/2002
**Time Sampled:** 13:57
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachlorocyclopentadiene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Hexachloroethane | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Isophorone | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| N-Nitrosodiphenylamine | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Naphthalene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Nitrobenzene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pentachlorophenol | ND | 3 | 4995.0 | ug/Kg | 12/28/02 | DP |
| Phenanthrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Phenol | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| Pyrene | ND | 3 | 999.0 | ug/Kg | 12/28/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 91 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 52 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 32 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 40 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 55 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 90 | | | % | 18 - 137 | |

**8015M - Total Petroleum Hydrocarbons**

| | | | | | | |
|---|---|---|---|---|---|---|
| Gasoline | ND | 1 | 5 | mg/Kg | 12/27/02 | CH |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 83 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402124 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** Laboratory Method Blank
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8015 Carbon Chain I** | | | | | | |
| C06 - C10 | ND | 1 | 20 | mg/Kg | 12/27/02 | CH |
| C10 - C22 | ND | 1 | 30 | mg/Kg | 12/27/02 | CH |
| C22 - C32 | ND | 1 | 50 | mg/Kg | 12/27/02 | CH |
| **8260B Volatile Organic Compounds** | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,1-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2,2-Tetrachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1,2-Trichlorotrifluoroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,1-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,3-Trichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2,4-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromo-3-chloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dibromoethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3,5-Trimethylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,3-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dichlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 1,4-Dioxane | ND | 1 | 200 | ug/Kg | 12/27/02 | AM |
| 1-Chlorohexane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2,2-Dichloropropane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Butanone (MEK) | ND | 1 | 100 | ug/Kg | 12/27/02 | AM |
| 2-Chloroethyl vinyl ether | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 2-Hexanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Chlorotoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| 4-Methyl -2- Pentanone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Acetone | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402124
**Matrix:** SOLID
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

**Client:** Foster Wheeler Environmental Corp.
**Client Sample ID:** Laboratory Method Blank

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Acetonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Acrolein | ND | 1 | 200 | ug/Kg | 12/27/02 | AM |
| Acrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Allyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Benzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Benzyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromodichloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromoform | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Bromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Carbon Disulfide | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Carbon tetrachloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chlorobenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloroform | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Chloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| cis-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dibromochloromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dibromomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Dichlorodifluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Ethyl benzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Ethyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Hexachlorobutadiene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Iodomethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Isopropylbenzene (Cumene) | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| m and p-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methacrylonitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methyl methacrylate | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methyl-tert-butylether (MTBE) | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Methylene chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| n-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| n-Propylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Naphthalene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| o-Xylene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| p-Isopropyltoluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402124 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** Laboratory Method Blank
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8260B Volatile Organic Compounds** | | | | | | |
| Pentachloroethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Propionitrile | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| sec-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Styrene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| tert-Butylbenzene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Tetrachloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Toluene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,2-Dichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,3-Dichloropropene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| trans-1,4-Dichloro-2-butene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichloroethene | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Trichlorofluoromethane | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Vinyl acetate | ND | 1 | 50 | ug/Kg | 12/27/02 | AM |
| Vinyl chloride | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| Xylenes, total | ND | 1 | 5 | ug/Kg | 12/27/02 | AM |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 1,2-Dichloroethane-d4 (sur) | 99 | | | % | 70 - 130 | |
| Dibromofluoromethane (sur) | 105 | | | % | 70 - 130 | |
| p-Bromofluorobenzene (sur) | 110 | | | % | 70 - 130 | |
| Toluene-d8 (sur) | 104 | | | % | 70 - 130 | |

**8270C Acid/Base/Neutral Extractables**

| | | | | | | |
|---|---|---|---|---|---|---|
| 1,2,4-Trichlorobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 1,2-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 1,3-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 1,4-Dichlorobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2,4,5-Trichlorophenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 2,4,6-Trichlorophenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 2,4-Dichlorophenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2,4-Dimethylphenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrophenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 2,4-Dinitrotoluene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2,6-Dinitrotoluene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2-Chloronaphthalene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2-Chlorophenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2-Methylnaphthalene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 2-Methylphenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402124 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** Laboratory Method Blank
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| 2-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 2-Nitrophenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 3,3-Dichlorobenzidine | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 3-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 4,6-Dinitro-2-methylphenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 4-Bromophenyl-phenylether | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 4-Chloro-3-methylphenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 4-Chloroaniline | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 4-Chlorophenyl-phenylether | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 4-Methylphenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| 4-Nitroaniline | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| 4-Nitrophenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| Acenaphthene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Acenaphthylene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Anthracene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzidine | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzo(a)anthracene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzo(a)pyrene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzo(b)fluoranthene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzo(g,h,i)perylene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzo(k)fluoranthene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzoic Acid | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Benzyl alcohol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethoxy)methane | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroethyl)ether | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| bis(2-Chloroisopropyl) ether | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| bis(2-Ethylhexyl)phthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Butylbenzylphthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Chrysene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Di-n-butylphthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Di-n-octylphthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Dibenz(a,h)anthracene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Dibenzofuran | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Diethylphthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Dimethylphthalate | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Fluoranthene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Fluorene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Hexachlorobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

**Order #:** 402124 **Client:** Foster Wheeler Environmental Corp.
**Matrix:** SOLID **Client Sample ID:** Laboratory Method Blank
**Date Sampled:**
**Time Sampled:**
**Sampled By:**

| Analyte | Result | DF | DLR | Units | Date/Analyst | |
|---|---|---|---|---|---|---|
| **8270C Acid/Base/Neutral Extractables** | | | | | | |
| Hexachlorobutadiene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Hexachlorocyclopentadiene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Hexachloroethane | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Indeno(1,2,3-c,d)pyrene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Isophorone | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| N-Nitroso-di-n-propylamine | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| N-Nitrosodiphenylamine | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Naphthalene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Nitrobenzene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Pentachlorophenol | ND | 1 | 1665 | ug/Kg | 12/28/02 | DP |
| Phenanthrene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Phenol | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| Pyrene | ND | 1 | 333 | ug/Kg | 12/28/02 | DP |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| 2,4,6-Tribromophenol (sur) | 64 | | | % | 17 - 122 | |
| 2-Fluorobiphenyl (sur) | 53 | | | % | 30 - 115 | |
| 2-Fluorophenol (sur) | 40 | | | % | 25 - 121 | |
| Nitrobenzene-d5 (sur) | 44 | | | % | 23 - 120 | |
| Phenol-d5 (sur) | 49 | | | % | 24 - 113 | |
| Terphenyl-d14 (sur) | 77 | | | % | 18 - 137 | |
| **8015M - Total Petroleum Hydrocarbons** | | | | | | |
| Gasoline | ND | 1 | 5 | mg/Kg | 12/27/02 | CH |
| **Surrogates** | | | | **Units** | **Control Limits** | |
| a,a,a-Trifluorotoluene | 80 | | | % | 55 - 156 | |

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

# ASSOCIATED LABORATORIES
QA REPORT FORM

QC Sample: LCS/LCSD

Matrix: SOLID

Prep. Date: 12/27/02

Analysis Date: 12/27/02

ID#'s in Batch: LR 104374, 104340, 104140

Reporting Units = ug/Kg

**PREPARATION BLANK / LAB CONTROL SAMPLE RESULTS**

| | | | PREP BLK | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | **Value** | **Result** | **True** | **%Rec** | **L.Limit** | **H.Limit** |
| **Test** | **Method** | LCS | ND | 539 | 500 | 108 | 80% | 120% |
| DIESEL | 8015D | LCSD | ND | 535 | 500 | 107 | 80% | 120% |

*LCS Result = Lab Control Sample Result*
*True = True Value of LCS*
*L.Limit / H.Limit = LCS Control Limits*

SURROGATE RECOVERY

| **Sample No.** | **O-Terphenyl** |
|---|---|
| **QC Limit** | **55-156** |
| Method Blank | 82 |
| LCS | 97 |
| LCSD | 110 |

*** Outside QC Limits**

# ASSOCIATED LABORATORIES

LCS REPORT FORM - METHOD 8260 / 624 / 524.2

QC Sample: LCS/LCSD - Soil Samples

Analysis Date: 12/27/02 5:04 PM

Applies to: LR 104374

Reporting Units = ug/Kg

**Lab Controlled Spike / Lab Controlled Spike Duplicate**

| Test | Sample Result | Spike Added | LCS Spike | LCS Spk. Dup | %Rec LCS | %Rec LCS D | RPD | QC Limits RPD | QC Limits %REC |
|---|---|---|---|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 50 | 53.15 | 56.64 | 106 | 113 | 6 | 22 | 59-172 |
| MTBE | ND | 50 | 40.98 | 40.49 | 82 | 81 | 1 | 24 | 62-137 |
| Benzene | ND | 50 | 47.63 | 49.32 | 95 | 99 | 3 | 24 | 62-137 |
| Trichloroethene | ND | 50 | 51.96 | 54.50 | 104 | 109 | 5 | 21 | 66-142 |
| Toluene | ND | 50 | 51.48 | 55.04 | 103 | 110 | 7 | 21 | 59-139 |
| Chlorobenzene | ND | 50 | 48.51 | 50.76 | 97 | 102 | 5 | 21 | 60-133 |

QC Sample: LCS # 1 1:57 PM
Analysis Date: 12/27/02

**LCS RECOVERY / METHOD BLANK**

| Test | Sample Result | Spike Added | LCS Spike | %Rec LCS | QC Limits %REC |
|---|---|---|---|---|---|
| 1,1-Dichloroethene | ND | 50 | 58.23 | 116 | 59-172 |
| MTBE | ND | 50 | 44.12 | 88 | 62-137 |
| Benzene | ND | 50 | 47.68 | 95 | 62-137 |
| Trichloroethene | ND | 50 | 50.70 | 101 | 66-142 |
| Toluene | ND | 50 | 49.89 | 100 | 59-139 |
| Chlorobenzene | ND | 50 | 49.64 | 99 | 60-133 |

**Method Blank = All ND**

## SURROGATE ( QC Limits : 70-135 )

| Compound | LCS 1 | MB | LCS | LCSD |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 90 | 99 | 94 | 94 |
| Dibromofluoromethane | 106 | 105 | 108 | 109 |
| Toluene-d8 | 102 | 104 | 104 | 108 |
| p-Bromofluorobenzene | 104 | 110 | 104 | 107 |

# ASSOCIATED LABORATORIES

QA REPORT FORM

Method : EPA 8270 / 625

QC Sample: 104374-122

Matrix: SOLID

Date Analyzed : 12/28/02

Date Extracted : 12/27/02

Applies to: LR 104374, 104127

REPORTING UNITS = ug/Kg

**MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT**

| Test | Sample Result | Spike Added | Matrix Spike | Matrix Spike Dup. | %Rec MS | %Rec MSD | RPD | QC Limits RPD | QC Limits %REC |
|---|---|---|---|---|---|---|---|---|---|
| Phenol | ND | 50 | 19 | 24 | 38 | 48 | 23 | 35 | 5-120 |
| 2-Chorophenol | ND | 50 | 23 | 29 | 46 | 58 | 23 | 50 | 20-140 |
| 1,4-Dichlorobenzene * | ND | 50 | 21 | 29 | 42 | 58 | 32 | 27 | 10-130 |
| n-Nitroso-di-propylamine | ND | 50 | 21 | 25 | 42 | 50 | 17 | 38 | 1-230 |
| 1,2,4-Trichlorobenzene * | ND | 50 | 24 | 32 | 48 | 64 | 29 | 23 | 40-150 |
| 4-Chloro-3-methylphenol | ND | 50 | 26 | 34 | 52 | 68 | 27 | 33 | 20-150 |
| Acenaphthene * | ND | 50 | 26 | 34 | 52 | 68 | 27 | 19 | 40-150 |
| 4-Nitrophenol | 0.1 | 50 | 44 | 42 | 88 | 84 | 5 | 50 | 1-140 |
| 2,4-Dinitrotoluene | ND | 50 | 40 | 42 | 80 | 84 | 5 | 47 | 35-145 |
| Pentachlorophenol | ND | 50 | 39 | 38 | 78 | 76 | 3 | 47 | 5-120 |
| Pyrene | ND | 50 | 40 | 39 | 80 | 78 | 3 | 36 | 45-125 |

***Outside QC limits, due to matrix interference**

**LCS RECOVERY / METHOD BLANK**

| Test | Spike Added | LCS Result | LCS % Rec | QC Limits %REC |
|---|---|---|---|---|
| Phenol | 50 | 22 | 44 | 5-120 |
| 2-Chlorophenol | 50 | 25 | 50 | 20-140 |
| 1,4-Dichlorobenzene | 50 | 25 | 50 | 10-130 |
| n-Nitroso-di-n-propylamine | 50 | 26 | 52 | 1-230 |
| 1,2,4-Trichlorobenzene | 50 | 28 | 56 | 40-150 |
| 4-Chloro-3-methylphenol | 50 | 29 | 58 | 20-150 |
| Acenaphthene | 50 | 30 | 60 | 40-150 |
| 4-Nitophenol | 50 | 32 | 64 | 1-140 |
| 2,4-Dinitrotoluene | 50 | 35 | 70 | 35-145 |
| Pentachlorophenol | 50 | 19 | 38 | 5-120 |
| Pyrene | 50 | 37 | 74 | 45-125 |

**Method Blank = All ND**

**ASSOCIATED LABORATORIES**
806 N. Batavia • Orange, CA 92868
(714) 771-6900 • Fax: (714) 538-1209

194374

# CHAIN OF CUSTODY RECORD

Date 12/26/02 Page 1 of 1

TAT: NEED RESULTS BY 12/29/02 C.O.B

CLIENT FOSTER WHEELER
ADDRESS 1641 VANDERGRIFT RD BLDG 1266
HOLLOMAN A.F.B. NM 88330

PROJECT MANAGER James Morning
PHONE NUMBER (505) 679-2011

Samples Intact Yes ____ No ____
County Seals Intact Yes ____ No ____
Sample Ambient ___ Cooled ___ Frozen ___
Same Day ✓ 24 Hr. ✓
Regular ____ 48 Hr. ____

PROJECT NAME WPOL
SAMPLERS (Signature) Rafe Jones

| SAMPLE NUMBER | LOCATION DESCRIPTION | DATE | TIME | SAMPLE TYPE WATER | AIR | SOLID | NO OF CNTNRS | SUSP. CONTAM. | TESTS REQUIRED |
|---|---|---|---|---|---|---|---|---|---|
| WPOLEX-11A | WPOL | 12/26/02 | 1300 | | | ✓ | 4 | | SEE ATTACHED |
| WPOLEX-12A | WPOL | 12/26/02 | 1330 | | | ✓ | 4 | | |
| WPOLEX-18A | WPOL | 12/26/02 | 1357 | | | ✓ | 4 | | |
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| Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|
| Rafe Jones 12/26/02 1600 hrs | Ryan Lewis | 9:50 12/27/02 |
| Relinquished by: (Signature) | Received by Laboratory for analysis: (Signature) | Date/Time |

Special Instructions: PLEASE FAX RESULTS TO 505-679-2148
FED EX 1 SHIPPER# 838526143884

I hereby authorize the performance of the above indicated work.
Rafe Jones

DISTRIBUTION: White with report. Yellow to AL, Pink to Courier

# COC Attachment B

| Parameter | Method | Container |
|---|---|---|
| TPH | 8015 (GRO, DRO & ORO) | (1) 8oz. |
| VOCs | 8260 | (2) En-core |
| SVOCs | 8270 | (1) 8oz. |

# ASSOCIATED LABORATORIES

## NARRATIVE

Date: January 2, 2003

**Narrative for Lab Request LR:** 104374

**Client Project Identification:**
Project: WPOL
This narrative includes all samples as shown on the attached Lab Request final report.

**Analyses Requested:**

- EPA 8015M – Total Petroleum Hydrocarbons.
- EPA 8015 – Carbon Chain I.
- EPA 8260B – Volatile Organic Compounds.
- EPA 8270C – Acid & Base/Neutral Extractables.

**Data Validation:**

**Holding Times**
All EPA designated holding times were met.

**Calibration**
Initial calibration criteria were met for all analytes. Initial and Continuing Calibration Check samples were run at the required frequency. All results were within required limits.

**Quality Control Samples**
Following is a summary of the QC data, along with an explanation of any samples that were outside QC limits and corrective actions that were taken:

- **EPA 8270:** The RPD was outside limits for 1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene and Acenaphthene. Corrective action: No corrective action neccessary. All other QC data conformed, including LCS, Method Blanks, surrogate recoveries, and the MS/MSD. Therefore, the analytical batch was accepted.

- **EPA 8260, 8015M (TPH) & 8015 (CCI):** All QC data was within control limits.

**Other Anomalies or Comments**
The reporting limit (DLR) is adjusted if dilution of the sample is necessary.

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/08

# Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

9040238.11.01

Accutest Job Number: F35540

Sampling Date: 10/05/05

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **191**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

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# Sample Summary

Bhate Environmental Associates, Inc.

**Job No:** F35540

HOLMN
Project No: 9040238.11.01

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35540-1 | 10/05/05 | 10:00 | KDG | 10/07/05 | SO | Soil | WPOL-SB01-10,20 |
| F35540-2 | 10/05/05 | 10:10 | KDG | 10/07/05 | SO | Soil | WPOL-SB01-34,37 |
| F35540-3 | 10/05/05 | 10:20 | KDG | 10/07/05 | SO | Soil | WPOL-SB01-64,72 |
| F35540-4 | 10/05/05 | 10:30 | KDG | 10/07/05 | SO | Soil | WPOL-SB06-4,12 |
| F35540-5 | 10/05/05 | 10:40 | KDG | 10/07/05 | SO | Soil | WPOL-SB06-27,40 |
| F35540-6 | 10/05/05 | 10:50 | KDG | 10/07/05 | SO | Soil | WPOL-SB06-62,70 |
| F35540-7 | 10/05/05 | 11:10 | KDG | 10/07/05 | SO | Soil | WPOL-SB07-9,20 |
| F35540-8 | 10/05/05 | 11:00 | KDG | 10/07/05 | SO | Soil | WPOL-SB07-4,9 |
| F35540-9 | 10/05/05 | 11:20 | KDG | 10/07/05 | SO | Soil | WPOL-SB07-52,56 |
| F35540-10 | 10/05/05 | 11:30 | KDG | 10/07/05 | SO | Soil | WPOL-SB04-4,9 |
| F35540-11 | 10/05/05 | 11:40 | KDG | 10/07/05 | SO | Soil | WPOL-SB04-24,33 |
| F35540-12 | 10/05/05 | 11:50 | KDG | 10/07/05 | SO | Soil | WPOL-SB04-62,69 |
| F35540-13 | 10/05/05 | 12:00 | KDG | 10/07/05 | SO | Soil | WPOL-SB03-9,13 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# Sample Summary
(continued)

Bhate Environmental Associates, Inc.

**Job No:** F35540

HOLMN
Project No: 9040238.11.01

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35540-14 | 10/05/05 | 12:10 | KDG | 10/07/05 | SO | Soil | WPOL-SB03-32,39 |
| F35540-15 | 10/05/05 | 12:20 | KDG | 10/07/05 | SO | Soil | WPOL-SB03-61,70 |
| F35540-16 | 10/05/05 | 12:30 | KDG | 10/07/05 | SO | Soil | WPOL-SB05-4,9 |
| F35540-17 | 10/05/05 | 12:40 | KDG | 10/07/05 | SO | Soil | WPOL-SB05-38,47 |
| F35540-18 | 10/05/05 | 12:50 | KDG | 10/07/05 | SO | Soil | WPOL-SB05-60,66 |
| F35540-19 | 10/05/05 | 11:20 | KDG | 10/07/05 | AQ | Equipment Blank | EQUIPMENT BLANK |
| F35540-20 | 10/05/05 | 00:00 | KDG | 10/07/05 | AQ | Trip Blank Soil | TRIP BLANK |
| F35540-21 | 10/05/05 | 13:00 | KDG | 10/07/05 | SO | Soil | WPOL-SB08-4,8 |
| F35540-22 | 10/05/05 | 13:10 | KDG | 10/07/05 | SO | Soil | WPOL-SB08-34,39 |
| F35540-23 | 10/05/05 | 13:20 | KDG | 10/07/05 | SO | Soil | WPOL-SB08-60,68 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Bhate Environmental Associates, Inc. **Job No:** F35540

**Site:** HOLMN **Report Date** 10/27/2005 2:40:26

22 Samples and 1 Trip Blank were collected on 10/05/2005 and received at Accutest on 10/07/2005 properly preserved, at 2.8 Deg. C and intact. These Samples received an Accutest job number of F35540. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VJ766

Sample(s) F35491-2MS, F35491-2MSD, F35491-2MSMSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Methyl bromide, Trans-1,4-Dichloro-2-Butene are outside control limits. Biased high, not detected in the samples, data integrity not affected.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether, Methyl bromide are outside control limits. Biased high and not detected in the samples, data integrity not affected.

**Matrix:** SO **Batch ID:** VG1356

Sample(s) F35540-5MS, F35540-5MSD, F35540-5MSMSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35540-13, F35540-14 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Blank Spike Recovery(s) for Acetone, Vinyl Acetate are outside control limits. Biased high and not detected in the sample.

MS and/or MSD Recovery(s) for Methyl iodide, Vinyl Acetate are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for Methyl iodide are outside control limits for sample F35540-5MSD. Probable cause due to sample homogeneity.

F35540-21: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-18: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-17: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-14: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-13: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-12: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-11: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-22: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-10: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-23: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VG1357

Sample(s) F35540-2MS, F35540-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35540-15, F35540-16, F35540-2, F35540-3, F35540-7 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Blank Spike Recovery(s) for Acrolein are outside control limits. Biased high, not detected in the samples, data integrity not

affected.

F35540-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-15: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-16: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-9: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35540-16 for Acetone: CCV outside of control limits; results may be biased low.

F35540-15 for Methyl ethyl ketone: CCV outside of control limits; results may be biased low.

**Matrix:** SO **Batch ID:** VG1361

Sample(s) F35686-19MS, F35686-19MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method SW846 8260B: F35540-10 Sample re-analyzed beyond hold time; reported results are considered minimum values.

F35540-10: Sample re-analyzed beyond hold time; reported results are considered minimum values.

## Extractables by GCMS By Method SW846 8270C

**Matrix:** AQ **Batch ID:** OP14669

All samples were extracted within the recommended method holding time.

Sample(s) F35532-1MS, F35532-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 2,6-Dinitrotoluene are outside control limits. Passed in MS/MSD, SW-846 8000 requirements are met.

Matrix Spike Recovery(s) for 2,4-Dinitrophenol, 2-Methylnaphthalene, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Bromophenyl phenyl ether, 4-Chloroaniline, 4-Nitroaniline, 4-Nitrophenol, Benzidine, Benzo(a)anthracene, Benzo(g,h,i)perylene, Benzoic Acid, Butyl benzyl phthalate, Hexachlorobutadiene, Hexachlorocyclopentadiene, N-Nitroso-di-n-propylamine, Pentachlorophenol are outside control limits. Probable cause due to matrix interference.

Matrix Spike Duplicate Recovery(s) for 2,4-Dinitrophenol, 2-Methylnaphthalene, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Bromophenyl phenyl ether, 4-Chloroaniline, 4-Chlorophenyl phenyl ether, 4-Nitroaniline, 4-Nitrophenol, Benzidine, Benzoic Acid, Butyl benzyl phthalate, Hexachlorobutadiene, Hexachlorocyclopentadiene, N-Nitroso-di-n-propylamine, Pentachlorophenol are outside control limits. Probable cause due to matrix interference.

Matrix Spike Recovery(s) for bis(2-Ethylhexyl)phthalate are outside control limits. Outside control limits due to high level in sample relative to spike amount.

RPD(s) for MSD for 4,6-Dinitro-o-cresol are outside control limits for sample OP14669-MSD. Probable cause due to sample homogeneity.

**Matrix:** SO **Batch ID:** OP14662

All samples were extracted within the recommended method holding time.

Sample(s) F35540-2MS, F35540-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Hexachlorobutadiene are outside control limits. Biased high, not detected in the samples, data not affected.

**Matrix:** SO **Batch ID:** OP14667

All samples were extracted within the recommended method holding time.

Sample(s) F35540-12MS, F35540-12MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference.

RPD(s) for MSD for 4-Chloroaniline are outside control limits for sample OP14667-MSD. Probable cause due to sample homogeneity.

## Volatiles by GC By Method SW846 8015

**Matrix:** SO **Batch ID:** GHH779

Sample(s) F35540-1MS, F35540-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35540-12, F35540-9 have surrogates outside control limits. Probable cause due to matrix interference.

F35540-5: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35540-13: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35540-14: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35540-8: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-9: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-16: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-4: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-17: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-18: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-3: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-2: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-15: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-7: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-10: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-6: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-12: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-1: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-11: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35540-12 for 4-Bromofluorobenzene: Result reported from PID.
F35540-9 for 4-Bromofluorobenzene: Result reported from PID.
F35540-12 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.
F35540-9 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

**Matrix:** SO **Batch ID:** GHH780

Sample(s) F35540-21DUP were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
F35540-21: Sample was received in a bulk container but was not preserved within 48 hours of sampling.
F35540-23: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

**Matrix:** SO **Batch ID:** GHH781

Sample(s) F35566-8MS, F35566-8MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
F35540-22: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Extractables by GC By Method SW846 8015 M

**Matrix:** SO **Batch ID:** OP14639

All samples were extracted within the recommended method holding time.
Sample(s) F35540-1MS, F35540-1MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
Sample(s) F35540-10, F35540-15, F35540-10, F35540-13 have surrogates outside control limits. Probable cause due to matrix interference.
F35540-13: Re-extract results reported because they were significantly higher than original results.
F35540-13 for o-Terphenyl: Confirmed by re-extraction and reanalysis.
F35540-15 for o-Terphenyl: Confirmed by re-extraction and reanalysis.
F35540-10 for o-Terphenyl: Confirmed by re-extraction and reanalysis.

**Matrix:** SO **Batch ID:** OP14665

All samples were extracted within the recommended method holding time.
Sample(s) F35540-21MS, F35540-21MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
Sample(s) F35540-10, F35540-15, F35540-10, F35540-13 have surrogates outside control limits. Probable cause due to matrix interference.

**Matrix:** SO **Batch ID:** OP14738

All samples were extracted within the recommended method holding time.
All method blanks for this batch meet method specific criteria.
Sample(s) F35540-10, F35540-15, F35540-10, F35540-13 have surrogates outside control limits. Probable cause due to matrix interference.
F35540-15: Confirmation run.
F35540-10: Confirmation run.

## Wet Chemistry By Method EPA 160.3 M

**Matrix:** SO **Batch ID:** GN18566

Sample(s) F35513-5DUP were used as the QC samples for Solids, Percent.

**Matrix:** SO **Batch ID:** GN18573

Sample(s) F35541-1DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: October 27, 2005

Svetlana Izosimova, QAO

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035228.D | 1 | 10/18/05 | JG | 10/07/05 13:30 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.76 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 72 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 72 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.2 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.2 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.2 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.2 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | 6.0 | 7.2 | 2.9 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 7.2 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.2 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.2 | 4.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.2 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.2 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.2 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.2 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.2 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.2 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.2 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.2 | 2.9 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 72 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.2 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.2 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.2 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.2 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028177.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 74% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 75% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 85% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 81% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017115.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.17 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.6 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-10,20 | | |
| **Lab Sample ID:** | F35540-1 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26275.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.8 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035261.D | 1 | 10/19/05 | JG | 10/07/05 13:30 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.83 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 71 | 35 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 71 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 7.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.1 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.1 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.1 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | 6.9 | 7.1 | 2.8 | ug/kg | J |
| 135-98-8 | sec-Butylbenzene | 8.0 | 7.1 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.1 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.1 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.1 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.1 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.1 | 2.8 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.1 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.1 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.1 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 7.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.1 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.1 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.1 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.1 | 2.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.1 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.1 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 7.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.1 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 35 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.1 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | 22.0 | 7.1 | 2.8 | ug/kg | B |
| 76-01-7 | Pentachloroethane | ND | 35 | 7.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 71 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 2.9 | 7.1 | 2.8 | ug/kg | J |
| 100-42-5 | Styrene | ND | 7.1 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 12.8 | 7.1 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.1 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.1 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.1 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.1 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028178.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 89 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 89 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 89 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 89 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 89 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 89 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 89 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 89 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 74% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 84% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017118.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.99 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.7 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-34,37 | | |
| **Lab Sample ID:** | F35540-2 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26235.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035265.D | 1 | 10/19/05 | JG | 10/07/05 13:30 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.17 g | 5.0 ml | 100 ul |
| Run #2 | | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 4600 | 2300 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 4600 | 1900 | ug/kg | |
| 107-02-8 | Acrolein | ND | 2300 | 1200 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 2300 | 1200 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 2300 | 460 | ug/kg | |
| 71-43-2 | Benzene | ND | 460 | 190 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 460 | 230 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 460 | 190 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 460 | 190 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 460 | 190 | ug/kg | |
| 75-25-2 | Bromoform | ND | 460 | 190 | ug/kg | |
| 104-51-8 | n-Butylbenzene | 2010 | 460 | 190 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 1750 | 460 | 190 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 460 | 190 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 460 | 190 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 460 | 190 | ug/kg | |
| 67-66-3 | Chloroform | ND | 460 | 190 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 460 | 190 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 460 | 190 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 460 | 190 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 2300 | 930 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 460 | 190 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 460 | 190 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 460 | 190 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 460 | 190 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 460 | 190 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 460 | 190 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 460 | 190 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 460 | 190 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 460 | 190 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 460 | 190 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 460 | 190 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 460 | 190 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 460 | 280 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 460 | 190 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 460 | 190 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 2300 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 460 | 190 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 460 | 190 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 460 | 190 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 460 | 190 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 460 | 190 | ug/kg | |
| 100-41-4 | Ethylbenzene | 809 | 460 | 190 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 2300 | 460 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 460 | 190 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 2300 | 930 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 460 | 190 | ug/kg | |
| 110-54-3 | Hexane | ND | 460 | 190 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 765 | 460 | 190 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | 753 | 460 | 190 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2300 | 930 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 2300 | 930 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 460 | 190 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 460 | 190 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 930 | 190 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 2300 | 460 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 460 | 190 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 930 | 460 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 2300 | 930 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 460 | 190 | ug/kg | |
| 91-20-3 | Naphthalene | 609 | 460 | 190 | ug/kg | B |
| 76-01-7 | Pentachloroethane | ND | 2300 | 460 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 4600 | 930 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 1230 | 460 | 190 | ug/kg | |
| 100-42-5 | Styrene | ND | 460 | 190 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 460 | 190 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 460 | 190 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 460 | 190 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 460 | 190 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 460 | 190 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 460 | 190 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 460 | 190 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 854 | 460 | 190 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 460 | 190 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 460 | 190 | ug/kg | |
| 108-88-3 | Toluene | ND | 460 | 190 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 460 | 190 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 460 | 190 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 2300 | 930 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 460 | 190 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 2300 | 930 | ug/kg | |
| | m,p-Xylene | ND | 930 | 230 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 460 | 190 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028181.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 95 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 95 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 95 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 95 | ug/kg | |
| 132-64-9 | Dibenzofuran | 93.3 | 240 | 48 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 480 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 95 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 95 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 95 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 95 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | 415 | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | 131 | 240 | 48 | ug/kg | J |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 95 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 95 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 81% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 81% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 78% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017119.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.17 g | 5.0 ml | 10.0 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 167 | 93 | 46 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 118% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB01-64,72 | | |
| **Lab Sample ID:** | F35540-3 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 68.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26420.D | 2 | 10/22/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 81.4 | 24 | 14 | mg/kg | |
| | TPH (> C22-C36) | ND | 24 | 14 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035229.D | 1 | 10/18/05 | JG | 10/07/05 13:30 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.85 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 76 | 38 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 76 | 30 | ug/kg | |
| 107-02-8 | Acrolein | ND | 38 | 19 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 38 | 19 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 38 | 7.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.6 | 3.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.6 | 3.8 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.6 | 3.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.6 | 3.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.6 | 3.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.6 | 3.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.6 | 3.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.6 | 3.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.6 | 3.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 38 | 15 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.6 | 3.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.6 | 3.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.6 | 3.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.6 | 3.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.6 | 3.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.6 | 3.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.6 | 3.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.6 | 3.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.6 | 3.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.6 | 3.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.6 | 4.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.6 | 3.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.6 | 3.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 38 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.6 | 3.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.6 | 3.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 38 | 7.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.6 | 3.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 38 | 15 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.6 | 3.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.6 | 3.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.6 | 3.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 38 | 15 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 38 | 15 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.6 | 3.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.6 | 3.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 15 | 3.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 38 | 7.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.6 | 3.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 15 | 7.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 38 | 15 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.6 | 3.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.6 | 3.0 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 38 | 7.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 76 | 15 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.6 | 3.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.6 | 3.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.6 | 3.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.6 | 3.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.6 | 3.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.6 | 3.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | 42.6 | 7.6 | 3.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.6 | 3.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.6 | 3.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.6 | 3.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 38 | 15 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.6 | 3.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 38 | 15 | ug/kg | |
| | m,p-Xylene | ND | 15 | 3.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.6 | 3.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 95% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 101% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 102% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028182.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 490 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 250 | 49 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 250 | 49 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 250 | 49 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 250 | 49 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 490 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 490 | 98 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 250 | 49 | ug/kg | |
| | 3&4-Methylphenol | ND | 250 | 49 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 250 | 49 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 490 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 490 | ug/kg | |
| 108-95-2 | Phenol | ND | 250 | 49 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 250 | 49 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 250 | 49 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 250 | 49 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 250 | 49 | ug/kg | |
| 120-12-7 | Anthracene | ND | 250 | 49 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2500 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 250 | 49 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 250 | 49 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 250 | 49 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 250 | 98 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 250 | 49 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 250 | 49 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 490 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 250 | 49 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 250 | 49 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 490 | 200 | ug/kg | |
| 218-01-9 | Chrysene | ND | 250 | 49 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 250 | 49 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 250 | 98 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 250 | 49 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 250 | 49 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 250 | 49 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 250 | 49 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 250 | 49 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 250 | 98 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 250 | 98 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 490 | 250 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 250 | 98 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 250 | 49 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 490 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 490 | 250 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 490 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 490 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 490 | 250 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 250 | 49 | ug/kg | |
| 86-73-7 | Fluorene | ND | 250 | 49 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 250 | 49 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 250 | 98 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 250 | 98 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 250 | 98 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 250 | 98 | ug/kg | |
| 78-59-1 | Isophorone | ND | 250 | 49 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 250 | 49 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 490 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 490 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 490 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 250 | 49 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 250 | 49 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 250 | 98 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 250 | 49 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 250 | 49 | ug/kg | |
| 129-00-0 | Pyrene | ND | 250 | 98 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 250 | 49 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 60% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 61% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 71% | | 50-128% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 68% | | 45-135% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017120.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.93 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.9 | 4.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 85% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-4,12 | | |
| **Lab Sample ID:** | F35540-4 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26237.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 31.0 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.1 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 57-115% |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035230.D | 1 | 10/18/05 | JG | 10/07/05 13:30 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.39 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 67 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 67 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.7 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.7 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.7 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.7 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.7 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.7 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.7 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.7 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.7 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.7 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 13 | 6.7 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.7 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 67 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.7 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.7 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.7 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028183.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 470 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 47 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 47 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 47 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 47 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 470 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 470 | 94 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 47 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 47 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 47 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 470 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 470 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 47 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 47 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 47 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 47 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 47 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 47 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 47 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 94 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 47 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 470 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 47 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 47 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 470 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 47 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 47 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 94 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 47 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 470 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 94 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 47 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 470 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 470 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 470 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 47 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 47 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 47 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 94 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 94 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 94 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 94 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 47 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 47 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 470 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 47 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 47 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 94 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 47 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 47 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 94 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 76% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 76% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 88% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 81% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017121.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.16 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.2 | 4.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-27,40 | | |
| **Lab Sample ID:** | F35540-5 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26238.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.0 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035231.D | 1 | 10/18/05 | JG | 10/07/05 13:30 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.16 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | 4.5 | 6.8 | 2.7 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.8 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028184.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 92 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 92 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 92 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 92 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 92 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 92 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 92 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 92 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 92 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 92 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 73% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 84% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017122.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.19 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.8 | 4.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 86% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB06-62,70 | | |
| **Lab Sample ID:** | F35540-6 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26239.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 70% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035262.D | 1 | 10/19/05 | JG | 10/07/05 13:30 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.31 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.8 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | 4.3 | 6.8 | 2.7 | ug/kg | JB |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 97% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028185.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 470 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 47 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 47 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 47 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 47 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 470 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 470 | 94 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 47 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 47 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 47 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 470 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 470 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 47 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 47 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 47 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 47 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 47 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 47 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 47 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 94 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 47 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 470 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 47 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 47 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 470 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 47 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 47 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 94 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 47 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 470 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 94 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 47 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 470 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 470 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 470 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 47 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 47 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 47 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 94 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 94 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 94 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 94 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 47 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 47 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 470 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 47 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 47 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 94 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 47 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 47 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 94 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 70% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 73% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017125.D | 1 | 10/18/05 | AB | 10/07/05 13:30 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.09 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.2 | 4.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-9,20 | | |
| **Lab Sample ID:** | F35540-7 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26278.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 7.50 | 12 | 7.1 | mg/kg | J |
| | TPH (> C22-C36) | ND | 12 | 7.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 65% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035232.D | 1 | 10/18/05 | JG | 10/07/05 14:10 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.18 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 69 | 35 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 69 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 6.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.9 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.9 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.9 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.9 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.9 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.9 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.9 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.9 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.9 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.9 | 2.8 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.9 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.9 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.9 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.9 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.9 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.9 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.9 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.9 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.9 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.9 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.9 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.9 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.9 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.9 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 6.9 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.9 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.9 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.9 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.9 | 2.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.9 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.9 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 6.9 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.9 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.9 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 35 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.9 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.9 | 2.8 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 35 | 6.9 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 69 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.9 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.9 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.9 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.9 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.9 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.9 | 2.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.9 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.9 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.9 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.9 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.9 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.9 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 95% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028186.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 470 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 47 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 47 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 47 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 47 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 470 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 470 | 94 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 47 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 47 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 47 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 470 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 470 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 47 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 47 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 47 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 47 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 47 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 47 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 47 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 94 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 47 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 470 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 47 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 47 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 470 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 47 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 47 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 94 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 47 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 470 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 94 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 47 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 470 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 470 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 470 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 47 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 47 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 47 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 94 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 94 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 94 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 94 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 47 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 47 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 470 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 47 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 47 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 94 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 47 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 47 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 94 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 69% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 83% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 65% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017126.D | 1 | 10/18/05 | AB | 10/07/05 14:10 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.38 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.9 | 4.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-4,9 | | |
| **Lab Sample ID:** | F35540-8 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26243.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.1 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035266.D | 1 | 10/19/05 | JG | 10/07/05 14:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.44 g | 5.0 ml | 100 ul |
| Run #2 | | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 3900 | 2000 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 3900 | 1600 | ug/kg | |
| 107-02-8 | Acrolein | ND | 2000 | 980 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 2000 | 980 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 2000 | 390 | ug/kg | |
| 71-43-2 | Benzene | ND | 390 | 160 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 390 | 200 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 390 | 160 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 390 | 160 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 390 | 160 | ug/kg | |
| 75-25-2 | Bromoform | ND | 390 | 160 | ug/kg | |
| 104-51-8 | n-Butylbenzene | 1870 | 390 | 160 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 3430 | 390 | 160 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 390 | 160 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 390 | 160 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 390 | 160 | ug/kg | |
| 67-66-3 | Chloroform | ND | 390 | 160 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 390 | 160 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 390 | 160 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 390 | 160 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 2000 | 780 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 390 | 160 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 390 | 160 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 390 | 160 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 390 | 160 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 390 | 160 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 390 | 160 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 390 | 160 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 390 | 160 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 390 | 160 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 390 | 160 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 390 | 160 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 390 | 160 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 390 | 230 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 390 | 160 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 390 | 160 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 2000 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 390 | 160 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 390 | 160 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 390 | 160 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 390 | 160 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 390 | 160 | ug/kg | |
| 100-41-4 | Ethylbenzene | 990 | 390 | 160 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 2000 | 390 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 390 | 160 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 2000 | 780 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 390 | 160 | ug/kg | |
| 110-54-3 | Hexane | ND | 390 | 160 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 1410 | 390 | 160 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | 711 | 390 | 160 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 2000 | 780 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 2000 | 780 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 390 | 160 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 390 | 160 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 780 | 160 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 2000 | 390 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 390 | 160 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 780 | 390 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 2000 | 780 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 390 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 390 | 160 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 2000 | 390 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 3900 | 780 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 2440 | 390 | 160 | ug/kg | |
| 100-42-5 | Styrene | ND | 390 | 160 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 390 | 160 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 390 | 160 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 390 | 160 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 390 | 160 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 390 | 160 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 390 | 160 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 390 | 160 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 532 | 390 | 160 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 390 | 160 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 390 | 160 | ug/kg | |
| 108-88-3 | Toluene | ND | 390 | 160 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 390 | 160 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 390 | 160 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 2000 | 780 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 390 | 160 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 2000 | 780 | ug/kg | |
| | m,p-Xylene | ND | 780 | 200 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 390 | 160 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 129% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028187.D | 1 | 10/14/05 | NJ | 10/12/05 | OP14662 | SL1476 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 220 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | 159 | 220 | 43 | ug/kg | J |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | 53.5 | 220 | 43 | ug/kg | J |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 220 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 78% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 77% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 79% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 81% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 75% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017127.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.44 g | 5.0 ml | 10.0 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 319 | 78 | 39 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 107% [b] | | 62-135% |
| 460-00-4 | 4-Bromofluorobenzene | 151% [c] | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Result reported from PID.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB07-52,56 | | |
| **Lab Sample ID:** | F35540-9 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26279.D | 10 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 528 | 110 | 66 | mg/kg | |
| | TPH (> C22-C36) | ND | 110 | 66 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035234.D | 1 | 10/18/05 | JG | 10/07/05 14:20 | n/a | VG1356 |
| Run #2 [b] | G0035372.D | 1 | 10/25/05 | JG | 10/07/05 14:20 | n/a | VG1361 |

| | Initial Weight |
|---|---|
| Run #1 | 4.88 g |
| Run #2 | 4.66 g |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND [c] | 7.1 | 2.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND [c] | 7.1 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 126-99-8 | Chloroprene | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.8 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.8 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | 95% | 78-123% |
| 2037-26-5 | Toluene-D8 | 99% | 89% | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | 89% | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | 87% | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(c) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028213.D | 1 | 10/17/05 | ME | 10/12/05 | OP14662 | SL1478 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 88 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 88 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 88 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 88 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 1150 | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 88 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 88 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 88 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 88 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 88 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 88 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 64% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 65% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 72% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 66% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017128.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.13 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.1 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-4,9 | | |
| **Lab Sample ID:** | F35540-10 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 75.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26280.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 [a] | IJ26394.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | 30.2 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 55% [b] | 46% | 57-115% |

(a) Confirmation run.
(b) Confirmed by re-extraction and reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035235.D | 1 | 10/18/05 | JG | 10/07/05 14:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.14 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 56 | 28 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 56 | 22 | ug/kg | |
| 107-02-8 | Acrolein | ND | 28 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 28 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 28 | 5.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.6 | 2.2 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.6 | 2.8 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.6 | 2.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.6 | 2.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.6 | 2.2 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.6 | 2.2 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.6 | 2.2 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.6 | 2.2 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.6 | 2.2 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 28 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.6 | 2.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.6 | 2.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.6 | 2.2 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.6 | 2.2 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.6 | 2.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.6 | 2.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.6 | 2.2 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.6 | 2.2 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.6 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.6 | 2.2 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.6 | 3.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.6 | 2.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.6 | 2.2 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 28 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.6 | 2.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.6 | 2.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.6 | 2.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 28 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.6 | 2.2 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.6 | 2.2 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.6 | 2.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 28 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 28 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.6 | 2.2 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.6 | 2.2 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.2 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.6 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 28 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.6 | 2.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.6 | 2.2 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 28 | 5.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 56 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.6 | 2.2 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.6 | 2.2 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.6 | 2.2 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.6 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.6 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.6 | 2.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.6 | 2.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.6 | 2.2 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.6 | 2.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.6 | 2.2 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 28 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.6 | 2.2 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 28 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.6 | 2.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 102% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028214.D | 1 | 10/17/05 | ME | 10/12/05 | OP14662 | SL1478 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 64% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 70% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 67% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017129.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.37 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.3 | 4.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-24,33 | | |
| **Lab Sample ID:** | F35540-11 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26395.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 59% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035236.D | 1 | 10/18/05 | JG | 10/07/05 14:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.58 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 57.4 | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | 5.8 | 6.1 | 2.4 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | 9.4 | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 13.0 | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | 3.2 | 6.1 | 2.4 | ug/kg | J |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 11.4 | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 4.7 | 6.1 | 2.4 | ug/kg | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 97% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 137% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012018.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 89 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 89 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 89 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 89 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 89 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 89 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 89 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 89 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 67% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 62% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 69% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 65% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 71% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017130.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.22 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 16.5 | 8.3 | 4.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 104% [b] | | 62-135% |
| 460-00-4 | 4-Bromofluorobenzene | 138% [c] | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Result reported from PID.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB04-62,69 | | |
| **Lab Sample ID:** | F35540-12 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26282.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 41.0 | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 57-115% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035240.D | 1 | 10/18/05 | JG | 10/07/05 14:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.74 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 72 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 72 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.2 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.2 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.2 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.2 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.2 | 2.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.2 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.2 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.2 | 4.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.2 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.2 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.2 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.2 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.2 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.2 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.2 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | 6.6 | 7.2 | 2.9 | ug/kg | JB |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 72 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.2 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.2 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.2 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.2 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012019.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 712 | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017131.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.60 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.2 | 4.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-9,13 | | |
| **Lab Sample ID:** | F35540-13 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26283.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | IJ26396.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | 30.6 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 8.24 | 11 | 6.8 | mg/kg | J |
| | TPH (> C22-C36) | 7.93 | 11 | 6.8 | mg/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 55% [b] | 58% | 57-115% |

(a) Re-extract results reported because they were significantly higher than original results.
(b) Confirmed by re-extraction and reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035241.D | 1 | 10/18/05 | JG | 10/07/05 14:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.03 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 73 | 37 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 73 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 37 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 37 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 37 | 7.3 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.3 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.3 | 3.7 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.3 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 13.7 | 7.3 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.3 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.3 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.3 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.3 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 37 | 15 | ug/kg | |
| 75-15-0 | Carbon disulfide | 3.9 | 7.3 | 2.9 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 7.3 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.3 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.3 | 4.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 37 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 37 | 7.3 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.3 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 37 | 15 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.3 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.3 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.3 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 37 | 15 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 37 | 15 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.3 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.3 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 15 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 37 | 7.3 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.3 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 15 | 7.3 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 37 | 15 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.3 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | 7.4 | 7.3 | 2.9 | ug/kg | B |
| 76-01-7 | Pentachloroethane | ND | 37 | 7.3 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 73 | 15 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.3 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.3 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.3 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 37 | 15 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.3 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 37 | 15 | ug/kg | |
| | m,p-Xylene | ND | 15 | 3.7 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.3 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 97% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 113% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012020.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 96 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 96 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 96 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 96 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 48 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 480 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 96 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 96 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 96 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 96 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 48 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 96 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 96 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 68% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 63% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 70% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 71% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017132.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.16 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.5 | 4.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 83% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-32,39 | | |
| **Lab Sample ID:** | F35540-14 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 68.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26286.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.3 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035263.D | 1 | 10/19/05 | JG | 10/07/05 14:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.94 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 70 | 35 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 70 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 7.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.0 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.0 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.0 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | 5.0 | 7.0 | 2.8 | ug/kg | J |
| 135-98-8 | sec-Butylbenzene | 4.9 | 7.0 | 2.8 | ug/kg | J |
| 98-06-6 | tert-Butylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.0 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.0 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | 8.0 | 7.0 | 2.8 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.0 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.0 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.0 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | 28.6 | 7.0 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.0 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.0 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.0 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 6.5 | 7.0 | 2.8 | ug/kg | J |
| 99-87-6 | p-Isopropyltoluene | 3.4 | 7.0 | 2.8 | ug/kg | J |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.0 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.0 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone [b] | 35.3 | 35 | 14 | ug/kg | J |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.0 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | 56.0 | 7.0 | 2.8 | ug/kg | B |
| 76-01-7 | Pentachloroethane | ND | 35 | 7.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 70 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 7.8 | 7.0 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.0 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 49.1 | 7.0 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 4.2 | 7.0 | 2.8 | ug/kg | J |
| 127-18-4 | Tetrachloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.0 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.0 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | 16.3 | 14 | 3.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.0 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012021.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 69% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 63% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 66% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017133.D | 1 | 10/18/05 | AB | 10/07/05 14:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.81 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.1 | 4.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 81% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB03-61,70 | | |
| **Lab Sample ID:** | F35540-15 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26287.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 [a] | IJ26397.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.8 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 49% [b] | 35% | 57-115% |

(a) Confirmation run.
(b) Confirmed by re-extraction and reanalysis.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035264.D | 1 | 10/19/05 | JG | 10/07/05 15:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.78 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone [b] | 38.1 | 70 | 35 | ug/kg | J |
| 75-05-8 | Acetonitrile | ND | 70 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 7.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.0 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.0 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.0 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | 30.6 | 7.0 | 2.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 40.1 | 7.0 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.0 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.0 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | 6.1 | 7.0 | 2.8 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 7.0 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.0 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.0 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | 45.2 | 7.0 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.0 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.0 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.0 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 33.2 | 7.0 | 2.8 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | 26.9 | 7.0 | 2.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.0 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.0 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 35 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.0 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | 109 | 7.0 | 2.8 | ug/kg | B |
| 76-01-7 | Pentachloroethane | ND | 35 | 7.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 70 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 45.5 | 7.0 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.0 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 158 | 7.0 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 54.1 | 7.0 | 2.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.0 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.0 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | 5.4 | 14 | 3.5 | ug/kg | J |
| 95-47-6 | o-Xylene | ND | 7.0 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 98% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) CCV outside of control limits; results may be biased low.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012022.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 88 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 88 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 88 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 88 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 88 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 88 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 88 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 88 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 88 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 88 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 74% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 68% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017134.D | 1 | 10/18/05 | AB | 10/07/05 15:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.23 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 10.8 | 8.1 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 115% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-4,9 | | |
| **Lab Sample ID:** | F35540-16 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26288.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 43.7 | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 57-115% |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035242.D | 1 | 10/18/05 | JG | 10/07/05 15:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.32 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 62 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 62 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.2 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.2 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.2 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.2 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.2 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.2 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.2 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.2 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.2 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.2 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.2 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.2 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 62 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.2 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.2 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.2 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012023.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 72% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 75% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017137.D | 1 | 10/18/05 | AB | 10/07/05 15:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.84 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.3 | 4.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 84% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-38,47 | | |
| **Lab Sample ID:** | F35540-17 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26289.D | 1 | 10/17/05 | SD | 10/10/05 | OP14639 | GIJ1243 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035243.D | 1 | 10/18/05 | JG | 10/07/05 15:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.06 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 66 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 66 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.6 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.6 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.6 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.6 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.6 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.6 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.6 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.6 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.6 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.6 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.6 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.6 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.6 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 13 | 6.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.6 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.6 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 66 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.6 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.6 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.6 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.6 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 96% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 93% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012024.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 89 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 89 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 89 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 89 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 89 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 89 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 89 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 89 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 77% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 74% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 76% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017138.D | 1 | 10/18/05 | AB | 10/07/05 15:20 | n/a | GHH779 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.08 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.3 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 82% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB05-60,66 | | |
| **Lab Sample ID:** | F35540-18 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26255.D | 1 | 10/15/05 | SD | 10/10/05 | OP14639 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J018528.D | 1 | 10/14/05 | MM | n/a | n/a | VJ766 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 5.0 | ug/l | |
| 75-05-8 | Acetonitrile | ND | 20 | 10 | ug/l | |
| 107-02-8 | Acrolein | ND | 10 | 5.0 | ug/l | |
| 107-13-1 | Acrylonitrile | ND | 10 | 5.0 | ug/l | |
| 107-05-1 | Allyl chloride | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.50 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | 0.60 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 1.0 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.0 | ug/l | |
| 67-66-3 | Chloroform | 1.9 | 1.0 | 0.50 | ug/l | |
| 544-10-5 | 1-Chlorohexane | ND | 2.0 | 1.0 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 5.0 | 2.5 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 1.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.0 | 0.50 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.40 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 10 | | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 97-63-2 | Ethyl methacrylate | ND | 5.0 | 2.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.60 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.5 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.50 | ug/l | |
| 110-54-3 | Hexane | ND | 2.0 | 1.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.50 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 2.5 | ug/l | |
| 126-98-7 | Methacrylonitrile | ND | 20 | 10 | ug/l | |
| 74-83-9 | Methyl bromide | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Methyl chloride | ND | 2.0 | 1.0 | ug/l | |
| 74-88-4 | Methyl iodide | ND | 5.0 | 2.5 | ug/l | |
| 80-62-6 | Methyl methacrylate | ND | 5.0 | 2.5 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 2.0 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.0 | ug/l | |
| 78-93-3 | Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | 1.0 | ug/l | |
| 76-01-7 | Pentachloroethane | ND | 10 | 5.0 | ug/l | |
| 107-12-0 | Propionitrile | ND | 20 | 10 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.40 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 10 | 5.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.50 | ug/l | |
| 108-05-4 | Vinyl Acetate | ND | 10 | 5.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 106% | | 86-115% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 114% | | 73-126% |
| 2037-26-5 | Toluene-D8 | 99% | | 86-112% |
| 460-00-4 | 4-Bromofluorobenzene | 112% | | 83-119% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F011977.D | 1 | 10/13/05 | NJ | 10/12/05 | OP14669 | SF653 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 1040 ml | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic Acid | ND | 24 | 9.6 | ug/l | |
| 95-57-8 | 2-Chlorophenol | ND | 4.8 | 1.9 | ug/l | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 4.8 | 1.9 | ug/l | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 4.8 | 1.9 | ug/l | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 4.8 | 1.9 | ug/l | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 24 | 9.6 | ug/l | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 9.6 | 4.8 | ug/l | |
| 95-48-7 | 2-Methylphenol | ND | 4.8 | 1.9 | ug/l | |
| | 3&4-Methylphenol | ND | 4.8 | 1.9 | ug/l | |
| 88-75-5 | 2-Nitrophenol | ND | 4.8 | 1.9 | ug/l | |
| 100-02-7 | 4-Nitrophenol | ND | 24 | 9.6 | ug/l | |
| 87-86-5 | Pentachlorophenol | ND | 24 | 9.6 | ug/l | |
| 108-95-2 | Phenol | ND | 4.8 | 1.9 | ug/l | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 4.8 | 1.9 | ug/l | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 4.8 | 1.9 | ug/l | |
| 83-32-9 | Acenaphthene | ND | 4.8 | 0.96 | ug/l | |
| 208-96-8 | Acenaphthylene | ND | 4.8 | 0.96 | ug/l | |
| 120-12-7 | Anthracene | ND | 4.8 | 0.96 | ug/l | |
| 92-87-5 | Benzidine | ND | 24 | 14 | ug/l | |
| 56-55-3 | Benzo(a)anthracene | ND | 4.8 | 0.96 | ug/l | |
| 50-32-8 | Benzo(a)pyrene | ND | 4.8 | 0.96 | ug/l | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 4.8 | 0.96 | ug/l | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 4.8 | 1.9 | ug/l | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 4.8 | 0.96 | ug/l | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 4.8 | 0.96 | ug/l | |
| 85-68-7 | Butyl benzyl phthalate | ND | 4.8 | 1.9 | ug/l | |
| 100-51-6 | Benzyl Alcohol | ND | 4.8 | 0.96 | ug/l | |
| 91-58-7 | 2-Chloronaphthalene | ND | 4.8 | 0.96 | ug/l | |
| 106-47-8 | 4-Chloroaniline | ND | 9.6 | 3.8 | ug/l | |
| 218-01-9 | Chrysene | ND | 4.8 | 0.96 | ug/l | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 4.8 | 0.96 | ug/l | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 4.8 | 1.9 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 4.8 | 0.96 | ug/l | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 4.8 | 0.96 | ug/l | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 4.8 | 0.96 | ug/l | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 4.8 | 0.96 | ug/l | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 4.8 | 0.96 | ug/l | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 4.8 | 1.9 | ug/l | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 4.8 | 1.9 | ug/l | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 9.6 | 4.8 | ug/l | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 4.8 | 1.9 | ug/l | |
| 132-64-9 | Dibenzofuran | ND | 4.8 | 0.96 | ug/l | |
| 84-74-2 | Di-n-butyl phthalate | ND | 4.8 | 1.9 | ug/l | |
| 117-84-0 | Di-n-octyl phthalate | ND | 4.8 | 2.4 | ug/l | |
| 84-66-2 | Diethyl phthalate | ND | 4.8 | 1.9 | ug/l | |
| 131-11-3 | Dimethyl phthalate | ND | 4.8 | 1.9 | ug/l | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 4.8 | 2.4 | ug/l | |
| 206-44-0 | Fluoranthene | ND | 4.8 | 0.96 | ug/l | |
| 86-73-7 | Fluorene | ND | 4.8 | 0.96 | ug/l | |
| 118-74-1 | Hexachlorobenzene | ND | 4.8 | 0.96 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.8 | 1.9 | ug/l | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 4.8 | 1.9 | ug/l | |
| 67-72-1 | Hexachloroethane | ND | 4.8 | 1.9 | ug/l | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 4.8 | 1.9 | ug/l | |
| 78-59-1 | Isophorone | ND | 4.8 | 0.96 | ug/l | |
| 91-57-6 | 2-Methylnaphthalene | ND | 4.8 | 0.96 | ug/l | |
| 88-74-4 | 2-Nitroaniline | ND | 9.6 | 3.8 | ug/l | |
| 99-09-2 | 3-Nitroaniline | ND | 9.6 | 3.8 | ug/l | |
| 100-01-6 | 4-Nitroaniline | ND | 9.6 | 3.8 | ug/l | |
| 91-20-3 | Naphthalene | ND | 4.8 | 0.96 | ug/l | |
| 98-95-3 | Nitrobenzene | ND | 4.8 | 0.96 | ug/l | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 4.8 | 1.9 | ug/l | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 4.8 | 1.9 | ug/l | |
| 85-01-8 | Phenanthrene | ND | 4.8 | 0.96 | ug/l | |
| 129-00-0 | Pyrene | ND | 4.8 | 0.96 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.8 | 0.96 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 37% | | 19-90% |
| 4165-62-2 | Phenol-d5 | 21% | | 10-68% |
| 118-79-6 | 2,4,6-Tribromophenol | 68% | | 36-137% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | EQUIPMENT BLANK | | |
| **Lab Sample ID:** | F35540-19 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Equipment Blank | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3510C | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 62% | | 49-119% |
| 321-60-8 | 2-Fluorobiphenyl | 65% | | 45-118% |
| 1718-51-0 | Terphenyl-d14 | 69% | | 46-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35540-20 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J018530.D | 1 | 10/14/05 | MM | n/a | n/a | VJ766 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 5.0 | ug/l | |
| 75-05-8 | Acetonitrile | ND | 20 | 10 | ug/l | |
| 107-02-8 | Acrolein | ND | 10 | 5.0 | ug/l | |
| 107-13-1 | Acrylonitrile | ND | 10 | 5.0 | ug/l | |
| 107-05-1 | Allyl chloride | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.50 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | 0.60 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 1.0 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 544-10-5 | 1-Chlorohexane | ND | 2.0 | 1.0 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 5.0 | 2.5 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 1.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.0 | 0.50 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35540-20 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.40 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 10 | | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 97-63-2 | Ethyl methacrylate | ND | 5.0 | 2.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.60 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.5 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.50 | ug/l | |
| 110-54-3 | Hexane | ND | 2.0 | 1.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.50 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 2.5 | ug/l | |
| 126-98-7 | Methacrylonitrile | ND | 20 | 10 | ug/l | |
| 74-83-9 | Methyl bromide | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Methyl chloride | ND | 2.0 | 1.0 | ug/l | |
| 74-88-4 | Methyl iodide | ND | 5.0 | 2.5 | ug/l | |
| 80-62-6 | Methyl methacrylate | ND | 5.0 | 2.5 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 2.0 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.0 | ug/l | |
| 78-93-3 | Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | 1.0 | ug/l | |
| 76-01-7 | Pentachloroethane | ND | 10 | 5.0 | ug/l | |
| 107-12-0 | Propionitrile | ND | 20 | 10 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.40 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35540-20 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 10 | 5.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.50 | ug/l | |
| 108-05-4 | Vinyl Acetate | ND | 10 | 5.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 86-115% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 73-126% |
| 2037-26-5 | Toluene-D8 | 99% | | 86-112% |
| 460-00-4 | 4-Bromofluorobenzene | 114% | | 83-119% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035244.D | 1 | 10/18/05 | JG | 10/07/05 15:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.00 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 65 | 32 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 65 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 32 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 32 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 32 | 6.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.5 | 3.2 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.5 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.5 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.5 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 32 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.5 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.5 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.5 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.5 | 3.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 32 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 32 | 6.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.5 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 32 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.5 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.5 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.5 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 32 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 32 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.5 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 32 | 6.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.5 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 13 | 6.5 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 32 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.5 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.5 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 32 | 6.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 65 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.5 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.5 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.5 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 32 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 32 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.2 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.5 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 95% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 98% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 100% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012025.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 85 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 85 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 85 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 85 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 85 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 85 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 85 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 85 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 85 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 85 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 69% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 64% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 50-128% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 74% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017146.D | 1 | 10/18/05 | AB | 10/07/05 15:20 | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.96 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.0 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-4,8 | | |
| **Lab Sample ID:** | F35540-21 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 77.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26258.D | 1 | 10/15/05 | SD | 10/12/05 | OP14665 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 68% | | 57-115% |

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N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035245.D | 1 | 10/18/05 | JG | 10/07/05 15:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.80 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 56 | 28 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 56 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 28 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 28 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 28 | 5.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.6 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.6 | 2.8 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.6 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.6 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.6 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.6 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.6 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 28 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.6 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.6 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.6 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.6 | 3.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 28 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.6 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 28 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.6 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.6 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.6 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 28 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 28 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.6 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.6 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.6 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 28 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.6 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.6 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 28 | 5.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 56 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.6 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.6 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.6 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 28 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.6 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 28 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.6 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 95% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012026.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 86 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 86 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 86 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 86 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 86 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 86 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 86 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 86 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 86 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 86 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 50% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 46% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 57% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 49% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 49% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 62% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017184.D | 1 | 10/19/05 | AB | 10/07/05 15:20 | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.14 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.9 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 90% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-34,39 | | |
| **Lab Sample ID:** | F35540-22 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26261.D | 1 | 10/16/05 | SD | 10/12/05 | OP14665 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 68% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035246.D | 1 | 10/18/05 | JG | 10/07/05 15:20 | n/a | VG1356 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.93 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.8 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.8 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8260B SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 95% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012027.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 67% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 62% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 69% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 66% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 69% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 72% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 SW846 5030A | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017149.D | 1 | 10/18/05 | AB | 10/07/05 15:20 | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.39 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.9 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB08-60,68 | | |
| **Lab Sample ID:** | F35540-23 | **Date Sampled:** | 10/05/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/07/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26262.D | 1 | 10/16/05 | SD | 10/12/05 | OP14665 | GIJ1242 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F35540

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]:100620051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

Sample Analysis Requested [3]

Quality Assurance Samples [6]

| | Field Sample ID (30 Character Max) | ER/PIMS LOCID (15 Character Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [4] | Sample Number [5] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOL-SB01-10,20 | WPOL | 5-Oct-05 | 10:00 | 10" | 20" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 2 | WPOL-SB01-34,37 | WPOL | 5-Oct-05 | 10:10 | 34" | 37" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 3 | WPOL-SB01-64,72 | WPOL | 5-Oct-05 | 10:20 | 64" | 72" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 4 | WPOL-SB06-4,12 | WPOL | 5-Oct-05 | 10:30 | 4" | 1' | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 5 | WPOL-SB06-27,40 | WPOL | 5-Oct-05 | 10:40 | 27" | 40" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 6 | WPOL-SB06-62,70 | WPOL | 5-Oct-05 | 10:50 | 62" | 70" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 7 | WPOL-SB07-9,20 | WPOL | 5-Oct-05 | 11:10 | 9" | 20" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 8 | WPOL-SB07-4,9 | WPOL | 5-Oct-05 | 11:00 | 4" | 9" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 9 | WPOL-SB07-52,56 | WPOL | 5-Oct-05 | 11:20 | 52" | 56" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 10 | WPOL-SB04-4,9 | WPOL | 5-Oct-05 | 11:30 | 4" | 9" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148** **Email results to: rrenvironmental@zlanet.com, dmeder@bhate.com, mdauben@bhate.com, kevinp@zlanet.com**

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | KDG | 10/06/2005 | @ 1600 | [signature] | 10/7/05 | 09:00 |
| 2. | FR | | | | | |
| 3. | | | | | | |

Sample Delivery Details / Laboratory Receipt

| | | | |
|---|---|---|---|
| Delivered Directly to Lab. | | Shipped No.: | |
| Method of Shipment: | Fed Ex | Airbill Number: | 8530763875560 |
| Analytical Lab: | Accutest | Delivery Location | Orlando, FL |
| Lab Recipient: | | Delivery Date/Time: | |

2.8

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW 1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4.1

4

**F35540: Chain of Custody**
**Page 1 of 4**



ACCUTEST Laboratories

F35540

F35540

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 2 of 3

Project Number: 9040238.11

P.0. NA

Chain of Custody Number [1]: 100620051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

Sample Analysis Requested [5] / Quality Assurance Samples [6]

| | Field Sample ID (30 Characters Max) | BRPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | WPOL-SB04-24,33 | WPOL | 5-Oct-05 | 11:40 | 24" | 33" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 12 | WPOL-SB04-62,69 | WPOL | 5-Oct-05 | 11:50 | 62" | 69" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 13 | WPOL-SB03-9,13 | WPOL | 5-Oct-05 | 12:00 | 9" | 13" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 14 | WPOL-SB03-32,39 | WPOL | 5-Oct-05 | 12:10 | 32" | 39" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 15 | WPOL-SB03-61,70 | WPOL | 5-Oct-05 | 12:20 | 61" | 70" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 16 | WPOL-SB05-4,9 | WPOL | 5-Oct-05 | 12:30 | 4" | 9" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 17 | WPOL-SB05-38,47 | WPOL | 5-Oct-05 | 12:40 | 38" | 47" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 18 | WPOL-SB05-60,66 | WPOL | 5-Oct-05 | 12:50 | 60" | 66" | N | 1 | SO | 3 | [1] | [1] | [1] | | | | | | | Investigative Soil Boring | 1 |
| 19 | Equipment Blank | WPOL | 5-Oct-05 | 11:20 | 52" | 56" | N | 1 | AQ | 5 | [1] | [1] | [1] | | | | | | | Equipment Blank | 1 |
| 20 | Trip Blank | | | | | | TB | | AQ | | | | | | | | | | | Trip Blank | 1 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148** **Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, kevlng@zianet.com**

**Custody Transfer Prior to Receipt by Laboratory**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | KDG | 10/06/2005 @ 1600 | | | | |
| 2. | | | | | | |
| 3. | | | | | | |

**Sample Delivery Details / Laboratory Receipt**

Delivered Directly to Lab: Shipped No.:
Method of Shipment: Fed Ex Airbill Number: 853076387560
Analytical Lab: Accutest Delivery Location: Orlando, FL
Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, PD = Field Duplicate (-s) Samples, PR = Field Replicant (-h) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

28

4.1

4

**F35540: Chain of Custody**
**Page 2 of 4**

F35540

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 3 of 3

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]: 100620051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

Sample Analysis Requested [4]

Quality Assurance Samples [6]

| | Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning) | Sample Depth (ending) | SA Code (3) | Sample Number (5) | Sample Matrix (6) | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Code ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | WPOL-SB08-4,8 | WPOL | 5-Oct-05 | 13:00 | 4" | 8" | N | 1 | SO | 3 | [1] | [2] | [3] | | | | | | Investigative Soil Boring | 2 |
| 22 | WPOL-SB08-34,39 | WPOL | 5-Oct-05 | 13:10 | 34" | 39" | N | 1 | SO | 3 | [1] | [2] | [3] | | | | | | Investigative Soil Boring | 2 |
| 23 | WPOL-SB08-60,68 | WPOL | 5-Oct-05 | 13:20 | 60" | 68" | N | 1 | SO | 3 | [1] | [2] | [3] | | | | | | Investigative Soil Boring | 2 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148**

**Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, keving@zianet.com**

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/06/2005 @ 1600 | | [signature] | 10/7/05 | 09:00 |
| 2. | [signature] | | | | | |
| 3. | | | | | | |

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab.

Method of Shipment: Fed Ex

Analytical Lab: Accutest

Lab Recipient:

Shipped. No.:

Airbill Number: 85307638 7560

Delivery Location: Orlando, FL

Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 101099001 in the Equipment Blank Loc Control

4.1

4

**F35540: Chain of Custody**
**Page 3 of 4**

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F35540 CLIENT: BHAE PROJECT: West Pol

DATE/TIME RECEIVED: 10/7/05 09:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2-8

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 853076385247

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

## SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

## SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: Recieved water T.B.
Recieved second water T.B (more sample 24).

TECHNICIAN SIGNATURE/DATE [signature] 10/7/05 TECHNICIAN SIGNATURE/DATE [signature] 10-7-05

ASBD06/22/05

4.1

4

F35540: Chain of Custody
Page 4 of 4

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/08

# Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

904238.11.01

Accutest Job Number: F35564

Sampling Date: 10/06/05

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **92**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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# Sample Summary

Bhate Environmental Associates, Inc.

**Job No:** F35564

HOLMN
Project No: 904238.11.01

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35564-1 | 10/06/05 | 10:00 | KDG | 10/08/05 | SO | Soil | WPOL-SB013-4,19 |
| F35564-2 | 10/06/05 | 10:10 | KDG | 10/08/05 | SO | Soil | WPOL-SB013-28,35 |
| F35564-3 | 10/06/05 | 10:20 | KDG | 10/08/05 | SO | Soil | WPOL-SB013-60,68 |
| F35564-4 | 10/06/05 | 10:30 | KDG | 10/08/05 | SO | Soil | WPOL-SB014-4,11 |
| F35564-5 | 10/06/05 | 10:40 | KDG | 10/08/05 | SO | Soil | WPOL-SB014-33,39 |
| F35564-6 | 10/06/05 | 10:50 | KDG | 10/08/05 | SO | Soil | WPOL-SB014-57,66 |
| F35564-7 | 10/06/05 | 11:00 | KDG | 10/08/05 | SO | Soil | WPOL-SB015-4,13 |
| F35564-8 | 10/06/05 | 11:10 | KDG | 10/08/05 | SO | Soil | WPOL-SB015-21,41 |
| F35564-9 | 10/06/05 | 11:20 | KDG | 10/08/05 | SO | Soil | WPOL-SB015-67,89 |
| F35564-10 | 10/06/05 | 11:20 | KDG | 10/08/05 | SO | Soil | WPOL-SB015-67,89-FD |
| F35564-11 | 10/06/05 | 00:00 | KDG | 10/08/05 | AQ | Trip Blank Soil | TRIP BLANK |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Bhate Environmental Associates, Inc. **Job No:** F35564

**Site:** HOLMN **Report Date** 10/24/2005 11:17:42

10 Samples, 1 Trip Blank were collected on 10/06/2005 and received at Accutest on 10/08/2005 properly preserved, at 2 Deg. C and intact. These Samples received an Accutest job number of F35564. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VJ766

All method blanks for this batch meet method specific criteria.

Sample(s) F35491-2MS, F35491-2MSD, F35491-2MSMSD were used as the QC samples indicated.

Blank Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Methyl bromide, Trans-1,4-Dichloro-2-Butene are outside control limits. Recovered high, analytes not detected in the samples, data integrity not affected.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether, Methyl bromide are outside control limits. 2-CEVE affeted by preservation, MeBr biased high and not detected in the samples.

**Matrix:** SO **Batch ID:** VG1357

Sample(s) F35540-2MS, F35540-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Acrolein are outside control limits. Recovery biased high, analyte not detected in the samples, data integrity not affected.

F35564-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-10: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35564-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-9: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35564-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-2 for Methylene chloride: Suspected laboratory contaminant.

F35564-1 for Methylene chloride: Suspected laboratory contaminant.

F35564-9 for Methylene chloride: Suspected laboratory contaminant.

F35564-10 for Methylene chloride: Suspected laboratory contaminant.

F35564-8 for Methylene chloride: Suspected laboratory contaminant.

F35564-4 for Methylene chloride: Suspected laboratory contaminant.

F35564-7 for Methylene chloride: Suspected laboratory contaminant.

F35564-5 for Methylene chloride: Suspected laboratory contaminant.

F35564-6 for Methylene chloride: Suspected laboratory contaminant.

**Matrix:** SO **Batch ID:** VG1358

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VG1358

Sample(s) F35566-1MS, F35566-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

BS, MS/MSD Recovery(s) for Acrolein are outside control limits. Biased high, analyte not detected in the samples, data itegrity not affected.

F35564-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Extractables by GCMS By Method SW846 8270C

**Matrix:** SO **Batch ID:** OP14667

All samples were extracted within the recommended method holding time.

Sample(s) F35540-12MS, F35540-12MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS/MSD Recovery(s) for Benzidine are outside control limits. Probable cause due to matrix interference. For method prefromance in clean matrix refer to Balnk Spike.

RPD(s) for MSD for 4-Chloroaniline are outside control limits for sample OP14667-MSD. Probable cause due to sample homogeneity.

## Volatiles by GC By Method SW846 8015

**Matrix:** SO **Batch ID:** GHH780

All method blanks for this batch meet method specific criteria.

Sample(s) F35540-21DUP were used as the QC samples indicated.

F35564-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-9: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35564-10: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35564-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35564-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Extractables by GC By Method SW846 8015 M

**Matrix:** SO **Batch ID:** OP14664

All samples were extracted within the recommended method holding time.

Sample(s) F35564-10MS, F35564-10MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

## Wet Chemistry By Method EPA 160.3 M

**Matrix:** SO **Batch ID:** GN18574

Sample(s) F35564-1DUP were used as the QC samples for Solids, Percent.

**Matrix:** SO **Batch ID:** GN18575

Sample(s) F35564-6DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: October 24, 2005

Svetlana Izosimova, QAO (signature on file)

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035269.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.66 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 78 | 39 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 78 | 31 | ug/kg | |
| 107-02-8 | Acrolein | ND | 39 | 20 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 39 | 20 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 39 | 7.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.8 | 3.1 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.8 | 3.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.8 | 3.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.8 | 3.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.8 | 3.1 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.8 | 3.1 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.8 | 3.1 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.8 | 3.1 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.8 | 3.1 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 39 | 16 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.8 | 3.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.8 | 3.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.8 | 3.1 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.8 | 3.1 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.8 | 3.1 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.8 | 3.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.8 | 3.1 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.8 | 3.1 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.8 | 3.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.8 | 3.1 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.8 | 4.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.8 | 3.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.8 | 3.1 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 39 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.8 | 3.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.8 | 3.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 39 | 7.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.8 | 3.1 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 39 | 16 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.8 | 3.1 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.8 | 3.1 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.8 | 3.1 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 39 | 16 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 39 | 16 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.8 | 3.1 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.8 | 3.1 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 16 | 3.1 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 39 | 7.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.8 | 3.1 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 22.4 | 16 | 7.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 39 | 16 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.8 | 3.1 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.8 | 3.1 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 39 | 7.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 78 | 16 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.8 | 3.1 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.8 | 3.1 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.8 | 3.1 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.8 | 3.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.8 | 3.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.8 | 3.1 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.8 | 3.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.8 | 3.1 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.8 | 3.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.8 | 3.1 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 39 | 16 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.8 | 3.1 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 39 | 16 | ug/kg | |
| | m,p-Xylene | ND | 16 | 3.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.8 | 3.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 92% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012031.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 95 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 95 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 95 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 95 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 48 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 480 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 95 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 95 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 95 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 95 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 48 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 95 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 95 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 72% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017150.D | 1 | 10/18/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.96 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.7 | 4.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-4,19 | | |
| **Lab Sample ID:** | F35564-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 68.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26313.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.3 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 74% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035270.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.20 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 63 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 63 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.3 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.3 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.3 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.3 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.3 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.3 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.3 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.3 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.3 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.3 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.3 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.3 | 3.8 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.3 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.3 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.3 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.3 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.3 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.3 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.3 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.3 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.3 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 16.8 | 13 | 6.3 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.3 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.3 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.3 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 63 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.3 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.3 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.3 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.3 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.3 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012032.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 86 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 86 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 86 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 86 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 86 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 86 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 86 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 86 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 86 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 86 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 86 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 86 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 75% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017151.D | 1 | 10/18/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.97 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.1 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-28,35 | | |
| **Lab Sample ID:** | F35564-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26314.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035310.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.17 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 70 | 35 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 70 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 7.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.0 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.0 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.0 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 35.7 | 7.0 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.0 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.0 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.0 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | 5.9 | 7.0 | 2.8 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 7.0 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.0 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.0 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.0 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.0 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.0 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.0 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.0 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 4.2 | 7.0 | 2.8 | ug/kg | J |
| 99-87-6 | p-Isopropyltoluene | ND | 7.0 | 2.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.0 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 7.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.0 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | 16.4 | 14 | 7.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 35 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.0 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.0 | 2.8 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 35 | 7.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 70 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.0 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.0 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.0 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.0 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.0 | 2.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.0 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.0 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.0 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.0 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.0 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 110% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012033.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 96 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 96 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 96 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 96 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 48 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 480 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 96 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 96 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 96 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 96 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 48 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 96 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 96 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 69% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 73% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017152.D | 1 | 10/18/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 6.05 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 11.2 | 8.2 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 104% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 90% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB013-60,68 | | |
| **Lab Sample ID:** | F35564-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26315.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 18.8 | 12 | 7.2 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035271.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.38 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 11.5 | 12 | 6.1 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012034.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 86 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 86 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 86 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 86 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 86 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 86 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 86 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 86 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 86 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 86 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 86 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 86 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 73% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017155.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 6.07 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 3.61 | 7.0 | 3.5 | mg/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 96% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-4,11 | | |
| **Lab Sample ID:** | F35564-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26316.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 31.7 | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035272.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.94 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 65 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 65 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.5 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.5 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.5 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.5 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.5 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.5 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.5 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.5 | 3.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.5 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.5 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.5 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.5 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.5 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.5 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 15.0 | 13 | 6.5 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.5 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.5 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 65 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.5 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.5 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.5 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.5 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012035.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 84 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 84 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 84 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 84 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 84 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 84 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 84 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 84 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 84 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 84 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 76% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 78% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 75% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017156.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.10 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.8 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-33,39 | | |
| **Lab Sample ID:** | F35564-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 77.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26317.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 78% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035273.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.79 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 60 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 60 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.0 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.0 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.0 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.0 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | 4.9 | 6.0 | 2.4 | ug/kg | J |
| 56-23-5 | Carbon tetrachloride | ND | 6.0 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.0 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.0 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.0 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.0 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.0 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.0 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.0 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.0 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 12.6 | 12 | 6.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.0 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.0 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 60 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.0 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.0 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.0 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.0 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012036.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 470 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 47 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 47 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 47 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 47 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 470 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 470 | 93 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 47 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 47 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 47 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 470 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 470 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 47 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 47 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 47 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 47 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 47 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 47 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 47 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 93 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 47 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 470 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 47 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 47 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 470 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 47 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 47 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 93 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 47 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 470 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 93 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 47 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 470 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 470 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 470 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 47 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 47 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 47 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 93 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 93 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 93 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 93 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 47 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 47 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 470 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 47 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 47 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 93 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 47 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 47 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 93 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 76% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017157.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.75 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.1 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB014-57,66 | | |
| **Lab Sample ID:** | F35564-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26318.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 88% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035274.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.18 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 67 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 67 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.7 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.7 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.7 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.7 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.7 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.7 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.7 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.7 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.7 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.7 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 12.8 | 13 | 6.7 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.7 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 67 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.7 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.7 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.7 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012037.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 64% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 59% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 69% | | 50-128% |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 64% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 65% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017158.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.16 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.6 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-4,13 | | |
| **Lab Sample ID:** | F35564-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26319.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035275.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.56 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 75 | 37 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 75 | 30 | ug/kg | |
| 107-02-8 | Acrolein | ND | 37 | 19 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 37 | 19 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 37 | 7.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.5 | 3.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.5 | 3.7 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.5 | 3.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.5 | 3.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.5 | 3.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.5 | 3.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.5 | 3.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.5 | 3.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.5 | 3.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 37 | 15 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.5 | 3.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.5 | 3.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.5 | 3.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.5 | 3.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.5 | 3.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.5 | 3.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.5 | 3.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.5 | 3.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.5 | 3.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.5 | 3.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.5 | 4.5 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.5 | 3.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.5 | 3.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 37 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.5 | 3.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.5 | 3.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 37 | 7.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.5 | 3.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 37 | 15 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.5 | 3.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.5 | 3.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.5 | 3.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 37 | 15 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 37 | 15 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.5 | 3.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.5 | 3.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 15 | 3.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 37 | 7.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.5 | 3.0 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 10.7 | 15 | 7.5 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 37 | 15 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.5 | 3.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.5 | 3.0 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 37 | 7.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 75 | 15 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.5 | 3.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.5 | 3.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.5 | 3.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.5 | 3.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.5 | 3.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.5 | 3.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.5 | 3.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.5 | 3.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.5 | 3.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.5 | 3.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 37 | 15 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.5 | 3.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 37 | 15 | ug/kg | |
| | m,p-Xylene | ND | 15 | 3.7 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.5 | 3.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 83% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012038.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 74% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017159.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.90 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.8 | 4.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-21,41 | | |
| **Lab Sample ID:** | F35564-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26320.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 89% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035267.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.71 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 72 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 72 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.2 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.2 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.2 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.2 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.2 | 2.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.2 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.2 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.2 | 4.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.2 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.2 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.2 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.2 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.2 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.2 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 22.2 | 14 | 7.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.2 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.2 | 2.9 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 72 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.2 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.2 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.2 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.2 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 102% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 89% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012060.D | 1 | 10/18/05 | NJ | 10/12/05 | OP14667 | SF657 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 74% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 69% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 74% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 72% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017160.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.06 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.5 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89 | | |
| **Lab Sample ID:** | F35564-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26323.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.8 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035268.D | 1 | 10/19/05 | JG | 10/08/05 11:20 | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.13 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 67 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 67 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.7 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.7 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.7 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.7 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.7 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.7 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.7 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.7 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.7 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.7 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 18.8 | 13 | 6.7 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.7 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 67 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.7 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.7 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.7 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 92% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012028.D | 1 | 10/17/05 | NJ | 10/12/05 | OP14667 | SF656 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 77% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 77% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 81% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017161.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.09 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.6 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB015-67,89-FD | | |
| **Lab Sample ID:** | F35564-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26324.D | 1 | 10/19/05 | SD | 10/12/05 | OP14664 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 94% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35564-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J018531.D | 1 | 10/14/05 | MM | n/a | n/a | VJ766 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 5.0 | ug/l | |
| 75-05-8 | Acetonitrile | ND | 20 | 10 | ug/l | |
| 107-02-8 | Acrolein | ND | 10 | 5.0 | ug/l | |
| 107-13-1 | Acrylonitrile | ND | 10 | 5.0 | ug/l | |
| 107-05-1 | Allyl chloride | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.50 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | 0.60 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 1.0 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 544-10-5 | 1-Chlorohexane | ND | 2.0 | 1.0 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 5.0 | 2.5 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 1.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.0 | 0.50 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35564-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.40 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 10 | | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 97-63-2 | Ethyl methacrylate | ND | 5.0 | 2.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.60 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.5 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.50 | ug/l | |
| 110-54-3 | Hexane | ND | 2.0 | 1.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.50 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 2.5 | ug/l | |
| 126-98-7 | Methacrylonitrile | ND | 20 | 10 | ug/l | |
| 74-83-9 | Methyl bromide | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Methyl chloride | ND | 2.0 | 1.0 | ug/l | |
| 74-88-4 | Methyl iodide | ND | 5.0 | 2.5 | ug/l | |
| 80-62-6 | Methyl methacrylate | ND | 5.0 | 2.5 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 2.0 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.0 | ug/l | |
| 78-93-3 | Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | 1.0 | ug/l | |
| 76-01-7 | Pentachloroethane | ND | 10 | 5.0 | ug/l | |
| 107-12-0 | Propionitrile | ND | 20 | 10 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.40 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35564-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 10 | 5.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.50 | ug/l | |
| 108-05-4 | Vinyl Acetate | ND | 10 | 5.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 107% | | 86-115% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 119% | | 73-126% |
| 2037-26-5 | Toluene-D8 | 98% | | 86-112% |
| 460-00-4 | 4-Bromofluorobenzene | 114% | | 83-119% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F35564

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 1 of 2

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]: 100720051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

Sample Analysis Requested [5]: Quality Assurance Samples [6]

| | Field Sample ID (50 Characters Max) | ER PIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOL-SB013-4,19 | WPOL | 6-Oct-05 | 10:00 | 4" | 19" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 2 | WPOL-SB013-28,35 | WPOL | 6-Oct-05 | 10:10 | 28" | 35" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 3 | WPOL-SB013-60,68 | WPOL | 6-Oct-05 | 10:20 | 60" | 68" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 4 | WPOL-SB014-4,11 | WPOL | 6-Oct-05 | 10:30 | 4" | 11" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 5 | WPOL-SB014-33,39 | WPOL | 6-Oct-05 | 10:40 | 33" | 39" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 6 | WPOL-SB014-57,66 | WPOL | 6-Oct-05 | 10:50 | 57" | 66" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 7 | WPOL-SB015-4,13 | WPOL | 6-Oct-05 | 11:00 | 4" | 13" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 4 | WPOL-SB015-21,41 | WPOL | 6-Oct-05 | 11:10 | 21" | 41" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 9 | WPOL-SB015-67,89 | WPOL | 6-Oct-05 | 11:20 | 67" | 89" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |
| 10 | WPOL-SB015-67,89-FD | WPOL | 6-Oct-05 | 11:20 | 67" | 89" | FD | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 2 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148**

**Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, keving@zianet.com**

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | KG | 10/07/2005 @ 1600 | | 1. FX | | |
| 2. | FX | | | 2. [illegible] Brown | 10-8-05 | 9:00 |
| 3. | | | | 3. | | |

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 849314272252

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time: 2.0

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SB = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4.1

4

**F35564: Chain of Custody**
**Page 1 of 2**

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F35564 CLIENT: BHate PROJECT: West ROL

DATE/TIME RECEIVED: 10-6-05/9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.0

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8493-1427-2252

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [X] TRIP BLANK NOT ON COC
- [X] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [X] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

## SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

## SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: Recieved T.B. not on COC. Recieved water T.B. with Soils. Recieved one coc that say 1 of 2 But no other cooler was found.

TECHNICIAN SIGNATURE/DATE Steven Bauer/10-6-05 TECHNICIAN SIGNATURE/DATE

ASBD06/22/05

4.1

4

F35564: Chain of Custody
Page 2 of 2

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/08

# Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

9040238.11.01

Accutest Job Number: F35566

Sampling Date: 10/06/05

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **109**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

Test results relate only to samples analyzed.

ACCUTEST LABORATORIES 50 YEARS 1956-2006

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# Sample Summary

Bhate Environmental Associates, Inc.

**Job No:** F35566

HOLMN
Project No: 9040238.11.01

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35566-1 | 10/06/05 | 08:00 | KG | 10/08/05 | SO | Soil | WPOL-SB09-4,16 |
| F35566-2 | 10/06/05 | 08:10 | KG | 10/08/05 | SO | Soil | WPOL-SB09-34,43 |
| F35566-3 | 10/06/05 | 08:20 | KG | 10/08/05 | SO | Soil | WPOL-SB09-63,71 |
| F35566-4 | 10/06/05 | 08:30 | KG | 10/08/05 | SO | Soil | WPOL-SB10-30,34 |
| F35566-5 | 10/06/05 | 08:40 | KG | 10/08/05 | SO | Soil | WPOL-SB10-56,62 |
| F35566-6 | 10/06/05 | 08:50 | KG | 10/08/05 | SO | Soil | WPOL-SB10-93,104 |
| F35566-7 | 10/06/05 | 09:00 | KG | 10/08/05 | SO | Soil | WPOL-SB11-0,6 |
| F35566-8 | 10/06/05 | 09:10 | KG | 10/08/05 | SO | Soil | WPOL-SB11-33,37 |
| F35566-9 | 10/06/05 | 09:20 | KG | 10/08/05 | SO | Soil | WPOL-SB11-54,80 |
| F35566-10 | 10/06/05 | 09:30 | KG | 10/08/05 | SO | Soil | WPOL-SB12-4,11 |
| F35566-11 | 10/06/05 | 09:40 | KG | 10/08/05 | SO | Soil | WPOL-SB12-32,41 |
| F35566-12 | 10/06/05 | 09:50 | KG | 10/08/05 | SO | Soil | WPOL-SB12-61,69 |
| F35566-13 | 10/06/05 | 00:00 | KG | 10/08/05 | AQ | Trip Blank Soil | TRIP BLANK |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Bhate Environmental Associates, Inc. **Job No:** F35566

**Site:** HOLMN **Report Date** 10/24/2005 11:50:33

12 Samples and 1 Trip Blank were collected on 10/06/2005 and received at Accutest on 10/08/2005 properly preserved, at 2.6 Deg. C and intact. These Samples received an Accutest job number of F35566. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VJ766

Sample(s) F35491-2MS, F35491-2MSD, F35491-2MSMSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Methyl bromide, Trans-1,4-Dichloro-2-Butene are outside control limits. Recoveries are biased high, analytes not detected in the samples, data integrity not affected.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether, Methyl bromide are outside control limits. 2-CEVE affected by preservation, MeBr biased high.

Sample(s) F35566-3 have surrogates outside control limits. Probable cause due to matrix interference.

**Matrix:** SO **Batch ID:** VG1357

Sample(s) F35540-2MS, F35540-2MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35566-2 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Blank Spike Recovery(s) for Acrolein are outside control limits. Biased high, analyte not detected in the samples, data integrity not affected.

F35566-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-2 for Methylene chloride: Suspected laboratory contaminant.

F35566-4 for Methylene chloride: Suspected laboratory contaminant.

F35566-5 for Methylene chloride: Suspected laboratory contaminant.

F35566-6 for Methylene chloride: Suspected laboratory contaminant.

**Matrix:** SO **Batch ID:** VG1358

Sample(s) F35566-1MS, F35566-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

BS, MS/MSD Recovery(s) for Acrolein are outside control limits. Recoveries are biased high, analyte not detected in the sample, data integrity not affected.

F35566-11: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-10: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-9: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VG1358

F35566-12: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Extractables by GCMS By Method SW846 8270C

**Matrix:** SO **Batch ID:** OP14653

All samples were extracted within the recommended method holding time.

Sample(s) F35566-1MS, F35566-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

## Volatiles by GC By Method SW846 8015

**Matrix:** SO **Batch ID:** GHH780

Sample(s) F35540-21DUP were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35566-3 have surrogates outside control limits. Probable cause due to matrix interference.

F35566-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-3 for 4-Bromofluorobenzene: Result reported from PID.

F35566-3 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.

**Matrix:** SO **Batch ID:** GHH781

Sample(s) F35566-8MS, F35566-8MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Sample(s) F35566-3 have surrogates outside control limits. Probable cause due to matrix interference.

F35566-10: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-12: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-11: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35566-9: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

## Extractables by GC By Method SW846 8015 M

**Matrix:** SO **Batch ID:** OP14652

All samples were extracted within the recommended method holding time.

Sample(s) F35566-1MS, F35566-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

## Wet Chemistry By Method EPA 160.3 M

**Matrix:** SO **Batch ID:** GN18575

Sample(s) F35564-6DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data QualityObjectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: October 24, 2005

Svetlana Izosimova, QAO (signature on file)

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035289.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.02 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 67 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 67 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.7 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.7 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.7 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.7 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.7 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.7 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.7 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.7 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.7 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.7 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | 23.8 | 13 | 6.7 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.7 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 67 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.7 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.7 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.7 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028130.D | 1 | 10/12/05 | NJ | 10/11/05 | OP14653 | SL1474 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 82% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017162.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.97 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.4 | 4.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-4,16 | | |
| **Lab Sample ID:** | F35566-1 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26330.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | LL06053.D | 1 | 10/12/05 | SD | 10/11/05 | OP14652 | GLL240 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | 30.4 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 76% | 86% | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035278.D | 1 | 10/19/05 | JG | n/a | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 7.13 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 46 | 23 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 46 | 19 | ug/kg | |
| 107-02-8 | Acrolein | ND | 23 | 12 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 23 | 12 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 23 | 4.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.6 | 1.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 4.6 | 2.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.6 | 1.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 4.6 | 1.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.6 | 1.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.6 | 1.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 4.6 | 1.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.6 | 1.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.6 | 1.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 23 | 9.3 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.6 | 1.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 4.6 | 1.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.6 | 1.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.6 | 1.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.6 | 1.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.6 | 1.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.6 | 1.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.6 | 1.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 4.6 | 1.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 4.6 | 1.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.6 | 2.8 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.6 | 1.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.6 | 1.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 23 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.6 | 1.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.6 | 1.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 23 | 4.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.6 | 1.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 23 | 9.3 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.6 | 1.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 4.6 | 1.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.6 | 1.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 23 | 9.3 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 23 | 9.3 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.6 | 1.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.6 | 1.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 9.3 | 1.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 23 | 4.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 4.6 | 1.9 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 12.2 | 9.3 | 4.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 23 | 9.3 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.6 | 1.9 | ug/kg | |
| 91-20-3 | Naphthalene | 2.3 | 4.6 | 1.9 | ug/kg | JB |
| 76-01-7 | Pentachloroethane | ND | 23 | 4.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 46 | 9.3 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.6 | 1.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.6 | 1.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.6 | 1.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.6 | 1.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.6 | 1.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.6 | 1.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 4.6 | 1.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.6 | 1.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 4.6 | 1.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.6 | 1.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 23 | 9.3 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.6 | 1.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 23 | 9.3 | ug/kg | |
| | m,p-Xylene | ND | 9.3 | 2.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.6 | 1.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028141.D | 1 | 10/12/05 | NJ | 10/11/05 | OP14653 | SL1474 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 74% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017163.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.86 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.4 | 4.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-34,43 | | |
| **Lab Sample ID:** | F35566-2 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 75.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26333.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035290.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.96 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | 54.2 | 6.8 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.8 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | 44.6 | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | 28.9 | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | 18.4 | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.8 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | 14.8 | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 97% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 393% [b] | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028147.D | 1 | 10/12/05 | NJ | 10/11/05 | OP14653 | SL1474 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 88 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 88 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 88 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 88 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 88 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 88 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 88 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 88 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 88 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 88 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 86% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 86% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 90% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 83% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017164.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.30 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 15.2 | 8.1 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 97% [b] | | 62-135% |
| 460-00-4 | 4-Bromofluorobenzene | 137% [c] | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Result reported from PID.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB09-63,71 | | |
| **Lab Sample ID:** | F35566-3 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26388.D | 2 | 10/21/05 | ME | 10/11/05 | OP14652 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 116 | 22 | 13 | mg/kg | |
| | TPH (> C22-C36) | ND | 22 | 13 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035279.D | 1 | 10/19/05 | JG | n/a | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.69 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 69 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 69 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.9 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.9 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.9 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.9 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.9 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.9 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.9 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.9 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.9 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.9 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.9 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.9 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.9 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.9 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.9 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.9 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.9 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.9 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.9 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.9 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.9 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.9 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.9 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.9 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.9 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.9 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.9 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.9 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.9 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.9 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.9 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.9 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.9 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 21.7 | 14 | 6.9 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.9 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.9 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.9 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 69 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.9 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.9 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.9 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.9 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.9 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.9 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.9 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.9 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.9 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.9 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.9 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.9 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028155.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 85 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 85 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 85 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 85 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 85 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 85 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 85 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 85 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 85 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 85 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 75% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 88% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 78% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 79% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017167.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.84 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.1 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-30,34 | | |
| **Lab Sample ID:** | F35566-4 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 77.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26335.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 10 | 6.2 | mg/kg | |
| | TPH (> C22-C36) | ND | 10 | 6.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035280.D | 1 | 10/19/05 | JG | n/a | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.66 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 72 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 72 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.2 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.2 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.2 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.2 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.2 | 2.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.2 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.2 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.2 | 4.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.2 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.2 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.2 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.2 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.2 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.2 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 18.8 | 14 | 7.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.2 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.2 | 2.9 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 72 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.2 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.2 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.2 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.2 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 83% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028156.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 87 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 87 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 87 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 87 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 87 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 87 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 87 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 87 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 87 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 87 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 87 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 93% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 93% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 101% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 89% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 98% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 97% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017168.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.12 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.2 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-56,62 | | |
| **Lab Sample ID:** | F35566-5 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 74.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26336.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035281.D | 1 | 10/19/05 | JG | n/a | n/a | VG1357 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.53 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 80 | 40 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 80 | 32 | ug/kg | |
| 107-02-8 | Acrolein | ND | 40 | 20 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 40 | 20 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 40 | 8.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 8.0 | 3.2 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 8.0 | 4.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 8.0 | 3.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 8.0 | 3.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 8.0 | 3.2 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 8.0 | 3.2 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 8.0 | 3.2 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 8.0 | 3.2 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 8.0 | 3.2 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 40 | 16 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 8.0 | 3.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 8.0 | 3.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 8.0 | 3.2 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 8.0 | 3.2 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 8.0 | 3.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 8.0 | 3.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 8.0 | 3.2 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 8.0 | 3.2 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 8.0 | 3.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 8.0 | 3.2 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 8.0 | 4.8 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 8.0 | 3.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 8.0 | 3.2 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 40 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 8.0 | 3.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 8.0 | 3.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 40 | 8.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 8.0 | 3.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 40 | 16 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 8.0 | 3.2 | ug/kg | |
| 110-54-3 | Hexane | ND | 8.0 | 3.2 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 8.0 | 3.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 40 | 16 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 40 | 16 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 8.0 | 3.2 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 8.0 | 3.2 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 16 | 3.2 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 40 | 8.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 8.0 | 3.2 | ug/kg | |
| 75-09-2 | Methylene chloride [b] | 16.4 | 16 | 8.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 40 | 16 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 8.0 | 3.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 8.0 | 3.2 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 40 | 8.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 80 | 16 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 8.0 | 3.2 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 8.0 | 3.2 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 8.0 | 3.2 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 8.0 | 3.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 8.0 | 3.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 8.0 | 3.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 8.0 | 3.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 8.0 | 3.2 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 8.0 | 3.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 8.0 | 3.2 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 40 | 16 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 8.0 | 3.2 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 40 | 16 | ug/kg | |
| | m,p-Xylene | ND | 16 | 4.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 8.0 | 3.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 83% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.
(b) Suspected laboratory contaminant.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028157.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 96 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 96 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 96 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 96 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 96 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 48 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 480 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 96 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 96 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 96 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 96 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 48 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 96 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 96 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 79% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 78% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 81% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 75% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 82% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017169.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 6.13 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.2 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB10-93,104 | | |
| **Lab Sample ID:** | F35566-6 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26337.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.2 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 87% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035291.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.81 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 66 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 66 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.6 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.6 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.6 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.6 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.6 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.6 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.6 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.6 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.6 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.6 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.6 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.6 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.6 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | 20.6 | 13 | 6.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.6 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.6 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 66 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.6 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.6 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.6 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.6 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 92% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028158.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 84 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 84 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 84 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 84 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 84 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 84 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 84 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 84 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 84 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 84 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 69% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 69% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 84% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 72% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017170.D | 1 | 10/19/05 | AB | n/a | n/a | GHH780 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.23 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.5 | 3.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-0,6 | | |
| **Lab Sample ID:** | F35566-7 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 78.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26340.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.3 | mg/kg | |
| | TPH (> C22-C36) | 7.71 | 11 | 6.3 | mg/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 75% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035292.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.19 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 63 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 63 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.3 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.3 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.3 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.3 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.3 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.3 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.3 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.3 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.3 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.3 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.3 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.3 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.3 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.3 | 3.8 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.3 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.3 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.3 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.3 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.3 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.3 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.3 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.3 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.3 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.3 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | 10.9 | 13 | 6.3 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.3 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.3 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.3 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 63 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.3 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.3 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.3 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.3 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.3 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.3 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.3 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.3 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.3 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.3 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028159.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 84 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 84 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 84 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 84 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 84 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 84 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 84 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 84 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 84 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 84 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 84 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 72% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017179.D | 1 | 10/19/05 | AB | n/a | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.32 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.0 | 4.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 91% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-33,37 | | |
| **Lab Sample ID:** | F35566-8 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26389.D | 1 | 10/21/05 | ME | 10/11/05 | OP14652 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035293.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.04 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 65 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 65 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.5 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.5 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.5 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.5 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.5 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.5 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.5 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.5 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.5 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.5 | 3.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.5 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.5 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.5 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.5 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.5 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.5 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.5 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | 13.2 | 13 | 6.5 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.5 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.5 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 65 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.5 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.5 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.5 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.5 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.5 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.5 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.5 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.5 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.5 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.5 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028160.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 86 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 86 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 86 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 86 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 86 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 86 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 86 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 86 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 86 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 86 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 68% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 50-128% |

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RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 70% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017173.D | 1 | 10/19/05 | AB | n/a | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 7.23 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.1 | 3.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 91% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB11-54,80 | | |
| **Lab Sample ID:** | F35566-9 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.2 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26342.D | 1 | 10/19/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035294.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.70 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 59 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 59 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 5.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.9 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.9 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.9 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.9 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.9 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.9 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.9 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.9 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.9 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.9 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.9 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.9 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.9 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.9 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.9 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.9 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.9 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.9 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.9 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.9 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.9 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.9 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.9 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.9 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 5.9 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.9 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.9 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.9 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.9 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.9 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.9 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 5.9 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.9 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | 10.6 | 12 | 5.9 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.9 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.9 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 5.9 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 59 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.9 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.9 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.9 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.9 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.9 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.9 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.9 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.9 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.9 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.9 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.9 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.9 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 97% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028161.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 89 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 89 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 89 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 89 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 89 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 89 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 89 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 89 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 77% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 76% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 87% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 74% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 79% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017174.D | 1 | 10/19/05 | AB | n/a | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.79 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.6 | 3.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-4,11 | | |
| **Lab Sample ID:** | F35566-10 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26343.D | 1 | 10/20/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.8 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 73% | | 57-115% |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035295.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.78 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | 8.1 | 12 | 6.1 | ug/kg | J |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028162.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 470 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 47 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 47 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 47 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 47 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 470 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 470 | 94 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 47 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 47 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 47 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 470 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 470 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 47 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 47 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 47 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 47 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 47 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 47 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 47 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 47 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 94 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 47 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 470 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 47 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 47 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 470 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 47 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 47 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 94 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 47 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 47 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 47 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 94 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 470 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 94 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 47 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 470 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 470 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 470 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 470 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 47 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 47 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 47 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 94 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 94 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 94 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 94 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 47 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 47 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 470 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 470 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 47 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 47 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 94 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 47 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 47 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 94 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 47 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 68% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 68% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 79% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 63% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017175.D | 1 | 10/19/05 | AB | n/a | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.43 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 10 | 5.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 91% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-32,41 | | |
| **Lab Sample ID:** | F35566-11 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26344.D | 1 | 10/20/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 84% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035296.D | 1 | 10/20/05 | RAW | n/a | n/a | VG1358 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.92 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 72 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 72 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.2 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.2 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.2 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.2 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.2 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.2 | 2.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.2 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.2 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.2 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.2 | 4.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.2 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.2 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.2 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.2 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.2 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.2 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.2 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.2 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.2 | 2.9 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 72 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.2 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.2 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.2 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.2 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.2 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.2 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.2 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.2 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.2 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.2 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 92% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028163.D | 1 | 10/13/05 | NJ | 10/11/05 | OP14653 | SL1475 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 70% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017176.D | 1 | 10/19/05 | AB | n/a | n/a | GHH781 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.22 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 10 | 5.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 85% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 91% | | 65-118% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB12-61,69 | | |
| **Lab Sample ID:** | F35566-12 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26345.D | 1 | 10/20/05 | SD | 10/11/05 | OP14652 | GIJ1245 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.0 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35566-13 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J018532.D | 1 | 10/14/05 | MM | n/a | n/a | VJ766 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 5.0 | ug/l | |
| 75-05-8 | Acetonitrile | ND | 20 | 10 | ug/l | |
| 107-02-8 | Acrolein | ND | 10 | 5.0 | ug/l | |
| 107-13-1 | Acrylonitrile | ND | 10 | 5.0 | ug/l | |
| 107-05-1 | Allyl chloride | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.50 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | 0.60 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 1.0 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 544-10-5 | 1-Chlorohexane | ND | 2.0 | 1.0 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 5.0 | 2.5 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 1.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.0 | 0.50 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35566-13 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.40 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 10 | | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 97-63-2 | Ethyl methacrylate | ND | 5.0 | 2.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.60 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.5 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.50 | ug/l | |
| 110-54-3 | Hexane | ND | 2.0 | 1.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.50 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 2.5 | ug/l | |
| 126-98-7 | Methacrylonitrile | ND | 20 | 10 | ug/l | |
| 74-83-9 | Methyl bromide | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Methyl chloride | ND | 2.0 | 1.0 | ug/l | |
| 74-88-4 | Methyl iodide | ND | 5.0 | 2.5 | ug/l | |
| 80-62-6 | Methyl methacrylate | ND | 5.0 | 2.5 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 2.0 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.0 | ug/l | |
| 78-93-3 | Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | 1.0 | ug/l | |
| 76-01-7 | Pentachloroethane | ND | 10 | 5.0 | ug/l | |
| 107-12-0 | Propionitrile | ND | 20 | 10 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.40 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35566-13 | **Date Sampled:** | 10/06/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/08/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 10 | 5.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.50 | ug/l | |
| 108-05-4 | Vinyl Acetate | ND | 10 | 5.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 86-115% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 121% | | 73-126% |
| 2037-26-5 | Toluene-D8 | 97% | | 86-112% |
| 460-00-4 | 4-Bromofluorobenzene | 114% | | 83-119% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F35566

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 1 of 2

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]:100720051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

| | Field Sample ID (10 Characters Max) | BRPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOL-SB09-4,16 | WPOL | 6-Oct-05 | 8:00 | 4" | 16" | N | 1 | SO | 1 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 2 | WPOL-SB09-34,43 | WPOL | 6-Oct-05 | 8:10 | 34" | 43" | N | 1 | SO | 1 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 3 | WPOL-SB09-63-71 | WPOL | 6-Oct-05 | 8:20 | 63" | 71" | N | 1 | SO | 1 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 4 | WPOL-SB010-30,34 | WPOL | 6-Oct-05 | 8:30 | 30" | 34" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 5 | WPOL-SB010-56,62 | WPOL | 6-Oct-05 | 8:40 | 56" | 62" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 6 | WPOL-SB010-93,104 | WPOL | 6-Oct-05 | 8:50 | 93" | 104" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 7 | WPOL-SB011-0,6 | WPOL | 6-Oct-05 | 9:00 | 0.00 | 6" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 8 | WPOL-SB011-33,37 | WPOL | 6-Oct-05 | 9:10 | 33" | 37" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 9 | WPOL-SB011-54,80 | WPOL | 6-Oct-05 | 9:20 | 54" | 80" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 10 | WPOL-SB012-4,11 | WPOL | 6-Oct-05 | 9:30 | 4" | 11" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |

Sample Analysis Requested [5]

Quality Assurance Samples [6]

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148**

**Email results to: rrenvironmental@zianet.com, dmedey@bhate.com, mdauben@bhate.com, keving@zianet.com**

Custody Transfers Prior to Receipt by Laboratory

| Relinquished By (Signed) | Date | Time | Received (signed) | Date | Time |
|---|---|---|---|---|---|
| 1. | 10/07/2005 @ 1600 | | 1. FX | | |
| 2. FX | | | 2. Steve Brown | 10-5-05 | 9:00 |
| 3. | | | 3. | | |

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: ____ Shipped No.: ____

Method of Shipment: Fed Ex Airbill Number: 849314272171

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: ____ Delivery Date/Time: ____

2.6

1.) Chain of Custody Number = date collected + custody number (e.g. 09-09-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-b) Samples, FR = Field Replicate (-d) Samples, EB = Equipment Blank (-e) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-a)

3.) Sample Number: Unique sample number collected from a particular location per day (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SB = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4.1

4

**F35566: Chain of Custody**
**Page 1 of 3**



ACCUTEST Laboratories

F35566

F35566

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 2 of 2

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]: 100720051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Gretmann

Sample Analysis Requested [5]

Quality Assurance Samples [6]

| | Field Sample ID (30 Character Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | WPOL-SB012-32,41 | WPOL | 6-Oct-05 | 9:40 | 32" | 41" | N | 1 | SO | 2 | ☒ | ☒ | ☒ | | | | | | Investigative Soil Boring | 1 |
| 12 | WPOL-SB012-61,69 | WPOL | 6-Oct-05 | 9:50 | 34" | 43" | N | 1 | SO | 2 | ☒ | ☒ | ☒ | | | | | | Investigative Soil Boring | 1 |
| 13 | Trip Blank | | | | | | TB | | AQ | | | | | | | | | | | |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148**

**Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, keving@zianet.com**

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished By (Signed) | Date | Time | Received by(Signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | | 10/07/2005 | @ 1600 | 1. Fx | | |
| 2. | Fx | | | 2. Stevan Green | 10-6-05 | 9:00 |
| 3. | | | | 3. | | |

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 849314272171

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-s) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Log Book)

**F35566: Chain of Custody**
**Page 2 of 3**

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F35566 CLIENT: BHate PROJECT: west Pol

DATE/TIME RECEIVED: 10-6-05/ 9:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 2.6

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8493-1427-2171

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

## SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

## SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: Recieved water T.B. with soils

TECHNICIAN SIGNATURE/DATE Steven Brown/10-6-05 TECHNICIAN SIGNATURE/DATE

ASBD06/22/05

4.1

4

F35566: Chain of Custody
Page 3 of 3

Southeast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

07/07/08

# Technical Report for

Bhate Environmental Associates, Inc.

HOLMN

PROJECT # 9030238.11

Accutest Job Number: F35686

Sampling Date: 10/11/05

Report to:

Bhate Environmental Associates, Inc.

zbeck@bhate.com

ATTN: Zack Beck

Total number of pages in report: **234**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Harry Behzadi, Ph.D.
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Jean Dent-Smith 407-425-6700

Certifications: FL (DOH E83510), NC (573), NJ (FL002), MA (FL946), IA (366), LA (03051), KS (E-10327), SC, AK

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Test results relate only to samples analyzed.

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# Sample Summary

Bhate Environmental Associates, Inc.

**Job No:** F35686

HOLMN
Project No: PROJECT # 9030238.11

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35686-1 | 10/11/05 | 08:00 | KG | 10/13/05 | SO | Soil | WPOL-SB16-4,9 |
| F35686-2 | 10/11/05 | 08:00 | KG | 10/13/05 | SO | Soil | WPOL-SB16-32,37 |
| F35686-3 | 10/11/05 | 08:00 | KG | 10/13/05 | SO | Soil | WPOL-SB16-58,67 |
| F35686-4 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17-4,11 |
| F35686-5 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17-31,38 |
| F35686-6 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17-60,67 |
| F35686-7 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17FD-4,11 |
| F35686-8 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17FD-31,38 |
| F35686-9 | 10/11/05 | 09:00 | KG | 10/13/05 | SO | Soil | WPOL-SB17FD-60,67 |
| F35686-10 | 10/11/05 | 10:00 | KG | 10/13/05 | SO | Soil | WPOL-SB18-4,10 |
| F35686-11 | 10/11/05 | 10:00 | KG | 10/13/05 | SO | Soil | WPOL-SB18-31,38 |
| F35686-12 | 10/11/05 | 10:00 | KG | 10/13/05 | SO | Soil | WPOL-SB18-61,68 |
| F35686-13 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19-4,12 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# Sample Summary
(continued)

Bhate Environmental Associates, Inc.

**Job No:** F35686

HOLMN
Project No: PROJECT # 9030238.11

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35686-14 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19-29,41 |
| F35686-15 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19-56,72 |
| F35686-16 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19FD-4,12 |
| F35686-17 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19FD-29,41 |
| F35686-18 | 10/11/05 | 11:00 | KG | 10/13/05 | SO | Soil | WPOL-SB19FD-56,72 |
| F35686-19 | 10/11/05 | 12:00 | KG | 10/13/05 | SO | Soil | WPOL-SB20-4,9 |
| F35686-20 | 10/11/05 | 12:00 | KG | 10/13/05 | SO | Soil | WPOL-SB20-30,39 |
| F35686-21 | 10/11/05 | 12:00 | KG | 10/13/05 | SO | Soil | WPOL-SB20-62,70 |
| F35686-22 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21-7,12 |
| F35686-23 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21-32,37 |
| F35686-24 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21-62,69 |
| F35686-25 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21FD-7,12 |
| F35686-26 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21FD-32,37 |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# Sample Summary
(continued)

Bhate Environmental Associates, Inc.

**Job No:** F35686

HOLMN
Project No: PROJECT # 9030238.11

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| F35686-27 | 10/11/05 | 14:00 | KG | 10/13/05 | SO | Soil | WPOL-SB21FD-62,69 |
| F35686-28 | 10/11/05 | 00:00 | KG | 10/13/05 | AQ | Trip Blank Soil | TRIP BLANK |

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

# SAMPLE DELIVERY GROUP CASE NARRATIVE

**Client:** Bhate Environmental Associates, Inc. **Job No:** F35686

**Site:** HOLMN **Report Date** 11/3/2005 11:20:29

27 Samples, 1 Trip Blank were collected on 10/11/2005 and received at Accutest on 10/13/2005 properly preserved, at 3 Deg. C and intact. These Samples received an Accutest job number of F35686. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** AQ **Batch ID:** VJ766

Sample(s) F35491-2MS, F35491-2MSD, F35491-2MSMSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for 2-Chloroethyl vinyl ether, Acetone, Methyl bromide, Trans-1,4-Dichloro-2-Butene are outside control limits. Recoveries are biased high and data integrity not affected.

MS/MSD Recovery(s) for 2-Chloroethyl vinyl ether, Methyl bromide are outside control limits. See above

**Matrix:** SO **Batch ID:** VG1360

Sample(s) F35686-6MS, F35686-6MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

Blank Spike Recovery(s) for Acrolein is biased high. Acrolein not detected in the samples, data integrity not affected.

F35686-3: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-1: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-11: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-15: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-2: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-9: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-16: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-14: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-17: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-5: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-6: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-13: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-10: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-7: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-12: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-8: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-4: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

**Matrix:** SO **Batch ID:** VG1361

Sample(s) F35686-19MS, F35686-19MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

## Volatiles by GCMS By Method SW846 8260B

**Matrix:** SO **Batch ID:** VG1361

Blank Spike Recovery(s) for Acrolein, Methylene chloride are outside control limits. Biased high, method sensitivity nor adversely affected.

MS/MSD Recovery(s) for 2,2-Dichloropropane are outside control limits. Probable cause due to matrix interference. For method perfromance in clean matrix refer to Blank Spike.

F35686-18: Sample was received in a bulk container but was not preserved within 48 hours of sampling.

F35686-19: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-20: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-21: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-27: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-26: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-25: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-24: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-23: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-22: Sample was received in a bulk container and preserved within 48 hours of sampling.

**Matrix:** SO **Batch ID:** VG1362

Sample(s) F35718-1MS, F35718-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

The following samples were run outside of holding time for method SW846 8260B: F35686-22, F35686-25 Sample re-analyzed beyond hold time; reported results are considered minimum values.

Sample(s) F35686-22 have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

Blank Spike Recovery(s) for Acrolein, Methyl iodide are outside control limits. Acrolein biased high, sensitivity not compromized, MeI passed control criteria in MS/MSD, SW-846 8000 requirements are met.

MS and/or MSD Recovery(s) for 1,3,5-Trimethylbenzene, 2,2-Dichloropropane, Methyl Tert Butyl Ether, tert-Butylbenzene, Vinyl Acetate are outside control limits. Probable cause due to matrix interference. Refer to Blank Spike.

F35686-25: Sample re-analyzed beyond hold time; reported results are considered minimum values.

F35686-22: Sample re-analyzed beyond hold time; reported results are considered minimum values.

## Extractables by GCMS By Method SW846 8270C

**Matrix:** SO **Batch ID:** OP14755

Sample(s) F35686-1MS, F35686-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS and/or MSD Recovery(s) for Benzidine, Benzoic acid are outside control limits. Probable cause due to matrix interference. Refer to Blank Spike.

RPD(s) for MSD for 2,4-Dinitrophenol, Benzoic acid are outside control limits for sample OP14755-MSD. Probable cause due to sample homogeneity.

**Matrix:** SO **Batch ID:** OP14774

Sample(s) F35686-14MS, F35686-14MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

MS and/or MSD Recovery(s) for Benzidine, Diethyl phthalate are outside control limits. Probable cause due to matrix interference. Refer to Blank Spike.

RPD(s) for MSD for 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Nitrophenol, 4,6-Dinitro-o-cresol, Benzoic acid, bis(2-Chloroethoxy)methane, bis(2-Chloroethyl)ether, bis(2-Chloroisopropyl)ether, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Isophorone, Naphthalene, Nitrobenzene are outside control limits for sample OP14774-MSD. Probable cause due to sample homogeneity.

## Volatiles by GC By Method SW846 8015

**Matrix:** SO **Batch ID:** GHH789

Sample(s) F35686-1MS, F35686-1MSD were used as the QC samples indicated.

All method blanks for this batch meet method specific criteria.

F35686-12: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-19: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-18: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-17: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-16: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-2: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-15: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-14: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-20: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-4: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-11: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-5: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-10: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-3: Sample was received in a bulk container and preserved within 48 hours of sampling.

F35686-6: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-7: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-8: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-9: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-1: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-13: Sample was received in a bulk container and preserved within 48 hours of sampling.

**Matrix:** SO **Batch ID:** GHH790

Sample(s) F35795-1MS, F35795-1MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
Sample(s) F35686-22 have surrogates outside control limits. Probable cause due to matrix interference.
F35686-27: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-23: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-24: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-25: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-26: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-22: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-21: Sample was received in a bulk container and preserved within 48 hours of sampling.
F35686-22 for 4-Bromofluorobenzene: Outside control limits due to matrix interference.
F35686-22 for 4-Bromofluorobenzene: Result reported from PID.

## Extractables by GC By Method SW846 8015 M

**Matrix:** SO **Batch ID:** OP14738

Sample(s) F35686-1MS, F35686-1MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
Sample(s) F35686-1, F35686-10, F35686-11, F35686-13, F35686-14, F35686-16, F35686-19, F35686-23, F35686-3, F35686-6, F35686-7, F35686-8, F35686-26 have surrogates outside control limits. Probable cause due to matrix interference.

**Matrix:** SO **Batch ID:** OP14784

Sample(s) F35686-27MS, F35686-27MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
F35686-26 for o-Terphenyl: Confirmed ND by re-extraction and reanalysis beyond holdtime.

**Matrix:** SO **Batch ID:** OP14860

Sample(s) F36078-2MS, F36078-2MSD were used as the QC samples indicated.
All method blanks for this batch meet method specific criteria.
F35686-23: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-1: Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.
F35686-8: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-10: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-6: Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.
F35686-26: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-3: Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.
F35686-11: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-13: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-14: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-16: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-19: Sample extracted beyond hold time; reported results are considered minimum values.
F35686-7: Sample extracted beyond hold time; reported results are considered minimum values.
OP14860-MS for TPH (C10-C22): Outside control limits due to high level in sample relative to spike amount.

## Wet Chemistry By Method EPA 160.3 M

**Matrix:** SO **Batch ID:** GN18611

Sample(s) F35651-7DUP were used as the QC samples for Solids, Percent.

**Matrix:** SO **Batch ID:** GN18617

Sample(s) F35686-7DUP were used as the QC samples for Solids, Percent.

**Matrix:** SO **Batch ID:** GN18619

Sample(s) F35682-3DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Southeast (ALSE) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALSE and as stated on the COC. ALSE certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALSE Quality Manual except as noted above. This report is to be used in its entirety. ALSE is not responsible for any assumptions of data quality if partial data packages are used

Narrative prepared by:

_____ Date: November 3, 2005

Svetlana Izosimova, QAO

## Sample Results

Report of Analysis

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035343.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.21 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 55 | 28 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 55 | 22 | ug/kg | |
| 107-02-8 | Acrolein | ND | 28 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 28 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 28 | 5.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.5 | 2.2 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.5 | 2.8 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.5 | 2.2 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.5 | 2.2 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.5 | 2.2 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.5 | 2.2 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.5 | 2.2 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 28 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.5 | 2.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.5 | 2.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.5 | 2.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.5 | 3.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 28 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 28 | 5.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.5 | 2.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 28 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.5 | 2.2 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.5 | 2.2 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.5 | 2.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 28 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 28 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.5 | 2.2 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.5 | 2.2 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.2 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 28 | 5.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.5 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.5 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 28 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.5 | 2.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.5 | 2.2 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 28 | 5.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 55 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.5 | 2.2 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.5 | 2.2 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.5 | 2.2 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 28 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.5 | 2.2 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 28 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.5 | 2.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 90% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 95% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012136.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 950 | 380 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 190 | 38 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 38 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 38 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 38 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 950 | 380 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 380 | 76 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | 38 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | 38 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 38 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 950 | 380 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 950 | 380 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | 38 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 38 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 38 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 190 | 38 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 190 | 38 | ug/kg | |
| 120-12-7 | Anthracene | ND | 190 | 38 | ug/kg | |
| 92-87-5 | Benzidine | ND | 1900 | 950 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 190 | 38 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 190 | 38 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 190 | 38 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 190 | 76 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 190 | 38 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 190 | 38 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 380 | 95 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 190 | 38 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 190 | 38 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 380 | 150 | ug/kg | |
| 218-01-9 | Chrysene | ND | 190 | 38 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 190 | 38 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 190 | 76 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 190 | 38 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 190 | 38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 190 | 76 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 190 | 76 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 380 | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 190 | 76 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 190 | 38 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 380 | 95 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 380 | 190 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 380 | 95 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 380 | 95 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 380 | 190 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 190 | 38 | ug/kg | |
| 86-73-7 | Fluorene | ND | 190 | 38 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 190 | 38 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 190 | 76 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 190 | 76 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 76 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 190 | 76 | ug/kg | |
| 78-59-1 | Isophorone | ND | 190 | 38 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 190 | 38 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 380 | 95 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 380 | 95 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 380 | 130 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 190 | 38 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 190 | 38 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 190 | 76 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 38 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 190 | 38 | ug/kg | |
| 129-00-0 | Pyrene | ND | 190 | 76 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 190 | 38 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 62% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 61% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 81% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017236.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.75 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.8 | 3.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 87% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-4,9 | | |
| **Lab Sample ID:** | F35686-1 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 87.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26577.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26398.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.6 | 5.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.6 | 5.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 79% | 55% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035344.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.47 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 54 | 27 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 54 | 21 | ug/kg | |
| 107-02-8 | Acrolein | ND | 27 | 13 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 27 | 13 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 27 | 5.4 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.4 | 2.1 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.4 | 2.7 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.4 | 2.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.4 | 2.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.4 | 2.1 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.4 | 2.1 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.4 | 2.1 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.4 | 2.1 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.4 | 2.1 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 27 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.4 | 2.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.4 | 2.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.4 | 2.1 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.4 | 2.1 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.4 | 2.1 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.4 | 2.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.4 | 2.1 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.4 | 2.1 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.4 | 2.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.4 | 2.1 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.4 | 3.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.4 | 2.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.4 | 2.1 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 27 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.4 | 2.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.4 | 2.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 27 | 5.4 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.4 | 2.1 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 27 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.4 | 2.1 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.4 | 2.1 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.4 | 2.1 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 27 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 27 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.4 | 2.1 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.4 | 2.1 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.1 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 27 | 5.4 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.4 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.4 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 27 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.4 | 2.1 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.4 | 2.1 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 27 | 5.4 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 54 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.4 | 2.1 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.4 | 2.1 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.4 | 2.1 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.4 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.4 | 2.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.4 | 2.1 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.4 | 2.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.4 | 2.1 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.4 | 2.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.4 | 2.1 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 27 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.4 | 2.1 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 27 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.7 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.4 | 2.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 89% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012139.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 960 | 390 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 190 | 39 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 39 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 39 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 39 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 960 | 390 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 390 | 77 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | 39 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | 39 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 39 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 960 | 390 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 960 | 390 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | 39 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 190 | 39 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 190 | 39 | ug/kg | |
| 120-12-7 | Anthracene | ND | 190 | 39 | ug/kg | |
| 92-87-5 | Benzidine | ND | 1900 | 960 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 190 | 39 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 190 | 39 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 190 | 39 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 190 | 77 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 190 | 39 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 390 | 96 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 190 | 39 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 190 | 39 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 390 | 150 | ug/kg | |
| 218-01-9 | Chrysene | ND | 190 | 39 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 190 | 39 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 190 | 77 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 190 | 39 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 190 | 77 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 190 | 77 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 390 | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 190 | 77 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 190 | 39 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 390 | 96 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 390 | 190 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 390 | 96 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 390 | 96 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 390 | 190 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 190 | 39 | ug/kg | |
| 86-73-7 | Fluorene | ND | 190 | 39 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 190 | 39 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 190 | 77 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 190 | 77 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 77 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 190 | 77 | ug/kg | |
| 78-59-1 | Isophorone | ND | 190 | 39 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 190 | 39 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 390 | 96 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 390 | 96 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 390 | 130 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 190 | 39 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 190 | 39 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 190 | 77 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 39 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 190 | 39 | ug/kg | |
| 129-00-0 | Pyrene | ND | 190 | 77 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 190 | 39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 68% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 75% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 81% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017239.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.25 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.5 | 3.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-32,37 | | |
| **Lab Sample ID:** | F35686-2 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 85.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26404.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.9 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.5 | 5.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.5 | 5.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 61% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035345.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.66 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 46 | 23 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 46 | 18 | ug/kg | |
| 107-02-8 | Acrolein | ND | 23 | 11 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 23 | 11 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 23 | 4.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.6 | 1.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 4.6 | 2.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.6 | 1.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 4.6 | 1.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.6 | 1.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.6 | 1.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 4.6 | 1.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.6 | 1.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.6 | 1.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 23 | 9.1 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.6 | 1.8 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 4.6 | 1.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.6 | 1.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.6 | 1.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.6 | 1.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.6 | 1.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.6 | 1.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.6 | 1.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 4.6 | 1.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 4.6 | 1.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.6 | 2.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.6 | 1.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.6 | 1.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 23 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.6 | 1.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.6 | 1.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 23 | 4.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.6 | 1.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 23 | 9.1 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.6 | 1.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 4.6 | 1.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.6 | 1.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 23 | 9.1 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 23 | 9.1 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.6 | 1.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.6 | 1.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 9.1 | 1.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 23 | 4.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 4.6 | 1.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 9.1 | 4.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 23 | 9.1 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.6 | 1.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 4.6 | 1.8 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 23 | 4.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 46 | 9.1 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.6 | 1.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.6 | 1.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.6 | 1.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.6 | 1.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.6 | 1.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.6 | 1.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 4.6 | 1.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.6 | 1.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 4.6 | 1.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.6 | 1.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 23 | 9.1 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.6 | 1.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 23 | 9.1 | ug/kg | |
| | m,p-Xylene | ND | 9.1 | 2.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.6 | 1.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 95% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 98% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012140.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1000 | 400 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 200 | 40 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 40 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 40 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 40 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1000 | 400 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 400 | 80 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | 40 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | 40 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | 40 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1000 | 400 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1000 | 400 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | 40 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 200 | 40 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 200 | 40 | ug/kg | |
| 120-12-7 | Anthracene | ND | 200 | 40 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2000 | 1000 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 200 | 40 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 200 | 40 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 200 | 40 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 200 | 80 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 200 | 40 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 400 | 100 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 200 | 40 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 200 | 40 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 400 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 200 | 40 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 200 | 40 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 200 | 80 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 200 | 40 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 200 | 80 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 200 | 80 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 400 | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 200 | 80 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 200 | 40 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 400 | 100 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 400 | 200 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 400 | 100 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 400 | 100 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 400 | 200 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 200 | 40 | ug/kg | |
| 86-73-7 | Fluorene | ND | 200 | 40 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 200 | 40 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 200 | 80 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 200 | 80 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 80 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 200 | 80 | ug/kg | |
| 78-59-1 | Isophorone | ND | 200 | 40 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 200 | 40 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 400 | 100 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 400 | 100 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 400 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 200 | 40 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 200 | 40 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 200 | 80 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 40 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 200 | 40 | ug/kg | |
| 129-00-0 | Pyrene | ND | 200 | 80 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 200 | 40 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 72% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 70% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 85% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 72% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 89% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017240.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.58 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.5 | 3.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB16-58,67 | | |
| **Lab Sample ID:** | F35686-3 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 82.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26578.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26405.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | 30.8 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.9 | 5.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.9 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 71% | 52% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035346.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.54 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 52 | 26 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 52 | 21 | ug/kg | |
| 107-02-8 | Acrolein | ND | 26 | 13 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 26 | 13 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 26 | 5.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.2 | 2.1 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.2 | 2.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.2 | 2.1 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.2 | 2.1 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.2 | 2.1 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.2 | 2.1 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.2 | 2.1 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.2 | 2.1 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.2 | 2.1 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 26 | 10 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.2 | 2.1 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.2 | 2.1 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.2 | 2.1 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.2 | 2.1 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.2 | 2.1 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.2 | 2.1 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.2 | 2.1 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.2 | 2.1 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.2 | 2.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.2 | 2.1 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.2 | 3.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.2 | 2.1 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.2 | 2.1 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 26 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.2 | 2.1 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.2 | 2.1 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 26 | 5.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.2 | 2.1 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 26 | 10 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.2 | 2.1 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.2 | 2.1 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.2 | 2.1 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 26 | 10 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 26 | 10 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.2 | 2.1 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.2 | 2.1 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 10 | 2.1 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 26 | 5.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.2 | 2.1 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 26 | 10 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.2 | 2.1 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.2 | 2.1 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 26 | 5.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 52 | 10 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.2 | 2.1 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.2 | 2.1 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.2 | 2.1 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.2 | 2.1 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.2 | 2.1 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.2 | 2.1 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.2 | 2.1 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.2 | 2.1 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.2 | 2.1 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.2 | 2.1 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 26 | 10 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.2 | 2.1 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 26 | 10 | ug/kg | |
| | m,p-Xylene | ND | 10 | 2.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.2 | 2.1 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 101% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012141.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 940 | 380 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 190 | 38 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 38 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 38 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 38 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 940 | 380 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 380 | 75 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | 38 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | 38 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 38 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 940 | 380 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 940 | 380 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | 38 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 38 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 38 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 190 | 38 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 190 | 38 | ug/kg | |
| 120-12-7 | Anthracene | ND | 190 | 38 | ug/kg | |
| 92-87-5 | Benzidine | ND | 1900 | 940 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 190 | 38 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 190 | 38 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 190 | 38 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 190 | 75 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 190 | 38 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 190 | 38 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 380 | 94 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 190 | 38 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 190 | 38 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 380 | 150 | ug/kg | |
| 218-01-9 | Chrysene | ND | 190 | 38 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 190 | 38 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 190 | 75 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 190 | 38 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 190 | 38 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 190 | 38 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 190 | 75 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 190 | 75 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 380 | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 190 | 75 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 190 | 38 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 380 | 94 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 380 | 190 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 120 | 380 | 94 | ug/kg | J |
| 131-11-3 | Dimethyl phthalate | ND | 380 | 94 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 380 | 190 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 190 | 38 | ug/kg | |
| 86-73-7 | Fluorene | ND | 190 | 38 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 190 | 38 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 190 | 75 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 190 | 75 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 75 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 190 | 75 | ug/kg | |
| 78-59-1 | Isophorone | ND | 190 | 38 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 190 | 38 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 380 | 94 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 380 | 94 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 380 | 130 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 190 | 38 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 190 | 38 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 190 | 75 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 38 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 190 | 38 | ug/kg | |
| 129-00-0 | Pyrene | ND | 190 | 75 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 190 | 38 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 60% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 58% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 78% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 59% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 63% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017241.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.06 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.5 | 3.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-4,11 | | |
| **Lab Sample ID:** | F35686-4 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 86.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26406.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.4 | 5.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.4 | 5.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035347.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.02 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 49 | 25 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 49 | 20 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | 12 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | 12 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 25 | 4.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 4.9 | 2.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 4.9 | 2.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 4.9 | 2.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 4.9 | 2.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 4.9 | 2.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 4.9 | 2.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 4.9 | 2.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 4.9 | 2.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 4.9 | 2.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | 9.8 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 4.9 | 2.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 4.9 | 2.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 4.9 | 2.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 4.9 | 2.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 4.9 | 2.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 4.9 | 2.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 4.9 | 2.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 4.9 | 2.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 4.9 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 4.9 | 2.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 4.9 | 2.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 4.9 | 2.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 4.9 | 2.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 25 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 4.9 | 2.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 4.9 | 2.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 25 | 4.9 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 4.9 | 2.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | 9.8 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 4.9 | 2.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 4.9 | 2.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 4.9 | 2.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | 9.8 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 25 | 9.8 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 4.9 | 2.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 4.9 | 2.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 9.8 | 2.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 25 | 4.9 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 4.9 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 9.8 | 4.9 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | 9.8 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 4.9 | 2.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 4.9 | 2.0 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 25 | 4.9 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 49 | 9.8 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 4.9 | 2.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 4.9 | 2.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 4.9 | 2.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 4.9 | 2.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 4.9 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 4.9 | 2.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 4.9 | 2.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 4.9 | 2.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 4.9 | 2.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 4.9 | 2.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 25 | 9.8 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 4.9 | 2.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | 9.8 | ug/kg | |
| | m,p-Xylene | ND | 9.8 | 2.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 4.9 | 2.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 94% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 88% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012142.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 970 | 390 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 190 | 39 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 39 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 39 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 39 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 970 | 390 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 390 | 77 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | 39 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | 39 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 39 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 970 | 390 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 970 | 390 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | 39 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 190 | 39 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 190 | 39 | ug/kg | |
| 120-12-7 | Anthracene | ND | 190 | 39 | ug/kg | |
| 92-87-5 | Benzidine | ND | 1900 | 970 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 190 | 39 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 190 | 39 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 190 | 39 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 190 | 77 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 190 | 39 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 390 | 97 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 190 | 39 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 190 | 39 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 390 | 150 | ug/kg | |
| 218-01-9 | Chrysene | ND | 190 | 39 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 190 | 39 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 190 | 77 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 190 | 39 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 190 | 77 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 190 | 77 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 390 | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 190 | 77 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 190 | 39 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 390 | 97 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 390 | 190 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 390 | 97 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 390 | 97 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 390 | 190 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 190 | 39 | ug/kg | |
| 86-73-7 | Fluorene | ND | 190 | 39 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 190 | 39 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 190 | 77 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 190 | 77 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 77 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 190 | 77 | ug/kg | |
| 78-59-1 | Isophorone | ND | 190 | 39 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 190 | 39 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 390 | 97 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 390 | 97 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 390 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 190 | 39 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 190 | 39 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 190 | 77 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 39 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 190 | 39 | ug/kg | |
| 129-00-0 | Pyrene | ND | 190 | 77 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 190 | 39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 63% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 60% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 72% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017242.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.96 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 5.9 | 2.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-31,38 | | |
| **Lab Sample ID:** | F35686-5 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 84.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26407.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.8 | 5.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.8 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035348.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.10 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 60 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 60 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.0 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.0 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.0 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.0 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.0 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.0 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.0 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.0 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.0 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.0 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.0 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.0 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.0 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.0 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.0 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.0 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 60 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.0 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.0 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.0 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.0 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 92% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012143.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 990 | 400 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 200 | 40 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 40 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 40 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 40 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 990 | 400 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 400 | 79 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | 40 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | 40 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | 40 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 990 | 400 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 990 | 400 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | 40 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 200 | 40 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 200 | 40 | ug/kg | |
| 120-12-7 | Anthracene | ND | 200 | 40 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2000 | 990 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 200 | 40 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 200 | 40 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 200 | 40 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 200 | 79 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 200 | 40 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 400 | 99 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 200 | 40 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 200 | 40 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 400 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 200 | 40 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 200 | 40 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 200 | 79 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 200 | 40 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 200 | 79 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 200 | 79 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 400 | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 200 | 79 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 200 | 40 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 400 | 99 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 400 | 200 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 400 | 99 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 400 | 99 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 400 | 200 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 200 | 40 | ug/kg | |
| 86-73-7 | Fluorene | ND | 200 | 40 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 200 | 40 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 200 | 79 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 200 | 79 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 79 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 200 | 79 | ug/kg | |
| 78-59-1 | Isophorone | ND | 200 | 40 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 200 | 40 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 400 | 99 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 400 | 99 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 400 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 200 | 40 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 200 | 40 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 200 | 79 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 40 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 200 | 40 | ug/kg | |
| 129-00-0 | Pyrene | ND | 200 | 79 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 200 | 40 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 69% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 65% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 69% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 66% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 75% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017243.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.59 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.7 | 3.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17-60,67 | | |
| **Lab Sample ID:** | F35686-6 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 82.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26579.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26408.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | 30.5 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.9 | 5.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.9 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67% | 54% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035351.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.52 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 58 | 29 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 58 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 29 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 29 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 29 | 5.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.8 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.8 | 2.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.8 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.8 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.8 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.8 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.8 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 29 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.8 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.8 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.8 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.8 | 3.5 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 29 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 29 | 5.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.8 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 29 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.8 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.8 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.8 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 29 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 29 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.8 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.8 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 29 | 5.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.8 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 5.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 29 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.8 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.8 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 29 | 5.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 58 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.8 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.8 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.8 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 29 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.8 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 29 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 2.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.8 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 96% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012144.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 85 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 85 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 85 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 85 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 85 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 85 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 85 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 85 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 85 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 85 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 53% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 50% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 67% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 55% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 56% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 68% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017246.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.73 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.2 | 4.1 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-4,11 | | |
| **Lab Sample ID:** | F35686-7 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 78.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26580.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26409.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 10 | 6.2 | mg/kg | |
| | TPH (> C22-C36) | 15.6 | 10 | 6.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | 51% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035352.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.31 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 68 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 68 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.8 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.8 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.8 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.8 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.8 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.8 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.8 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.8 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.8 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.8 | 4.1 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.8 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.8 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.8 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.8 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.8 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.8 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.8 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 6.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.8 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.8 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 68 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.8 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.8 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.8 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.8 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.8 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.8 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.8 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.8 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.8 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.8 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 93% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 88% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | F012145.D | 1 | 10/25/05 | NJ | 10/20/05 | OP14755 | SF662 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 480 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 48 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 48 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 48 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 48 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 480 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 480 | 95 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 48 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 48 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 48 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 480 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 480 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 48 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 48 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 48 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 48 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 48 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 48 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 48 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 48 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 95 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 48 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 480 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 48 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 48 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 480 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 48 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 48 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 95 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 48 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 48 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 48 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 95 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 480 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 95 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 48 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 480 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 128 | 480 | 120 | ug/kg | J |
| 131-11-3 | Dimethyl phthalate | ND | 480 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 480 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 48 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 48 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 48 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 95 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 95 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 95 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 95 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 48 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 48 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 480 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 480 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 48 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 48 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 95 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 48 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 48 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 95 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 48 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 79% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017247.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.99 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.4 | 4.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-31,38 | | |
| **Lab Sample ID:** | F35686-8 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 69.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26581.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26410.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | 30.5 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.2 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.2 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 68% | 51% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035353.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.76 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028356.D | 1 | 10/26/05 | NJ | 10/20/05 | OP14755 | SL1485 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 93 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 93 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 93 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 93 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 93 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 93 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 93 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 93 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 93 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 93 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 62% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 62% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 59% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 65% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 70% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017248.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.74 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.4 | 4.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB17FD-60,67 | | |
| **Lab Sample ID:** | F35686-9 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 71.3 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26411.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035354.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.48 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 57 | 29 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 57 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 29 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 29 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 29 | 5.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.7 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.7 | 2.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.7 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.7 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.7 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.7 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.7 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.7 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.7 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 29 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.7 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.7 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.7 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.7 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.7 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.7 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.7 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.7 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.7 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.7 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.7 | 3.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.7 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.7 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 29 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.7 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.7 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 29 | 5.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.7 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 29 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.7 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.7 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.7 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 29 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 29 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.7 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.7 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 29 | 5.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.7 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.7 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 29 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.7 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.7 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 29 | 5.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 57 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.7 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.7 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.7 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.7 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.7 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.7 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.7 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.7 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.7 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.7 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 29 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.7 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 29 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.7 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 88% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028357.D | 1 | 10/26/05 | NJ | 10/20/05 | OP14755 | SL1485 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1000 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1000 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 83 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1000 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1000 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1000 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 83 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 100 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 83 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 83 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 83 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 83 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 100 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 1000 | 420 | 100 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 100 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 83 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 83 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 83 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 83 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 100 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 100 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 83 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 83 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 56% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 57% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 79% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 57% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 62% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017249.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.48 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.0 | 3.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-4,10 | | |
| **Lab Sample ID:** | F35686-10 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 79.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26582.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26412.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 10 | 6.2 | mg/kg | |
| | TPH (> C22-C36) | 8.41 | 10 | 6.2 | mg/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 77% | 43% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035355.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.59 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 89% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028325.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 68% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 68% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 69% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017250.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.06 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.6 | 4.3 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-31,38 | | |
| **Lab Sample ID:** | F35686-11 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.0 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26583.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26413.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | 30.2 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | 55% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035356.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.68 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 62 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 62 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.2 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.2 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.2 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.2 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.2 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.2 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.2 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.2 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.2 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.2 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.2 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.2 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 62 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.2 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.2 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.2 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 89% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 84% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 87% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028326.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 93 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 93 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 93 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 93 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 93 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 93 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 93 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 93 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 93 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 93 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 93 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 70% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 71% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 77% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017251.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.40 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 10 | 5.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB18-61,68 | | |
| **Lab Sample ID:** | F35686-12 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 71.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26416.D | 1 | 10/21/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 66% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035357.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.35 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 58 | 29 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 58 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 29 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 29 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 29 | 5.8 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.8 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.8 | 2.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.8 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.8 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.8 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.8 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.8 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 29 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.8 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.8 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.8 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.8 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.8 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.8 | 3.5 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 29 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.8 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 29 | 5.8 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.8 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 29 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.8 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.8 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.8 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 29 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 29 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.8 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.8 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 29 | 5.8 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.8 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 5.8 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 29 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.8 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.8 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 29 | 5.8 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 58 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.8 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.8 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.8 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.8 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.8 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.8 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.8 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.8 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 29 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.8 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 29 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 2.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.8 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 100% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 82% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028327.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1000 | 410 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 200 | 41 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 41 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 41 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 41 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1000 | 410 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 410 | 82 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | 41 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | 41 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | 41 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1000 | 410 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1000 | 410 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | 41 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 41 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 41 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 200 | 41 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 200 | 41 | ug/kg | |
| 120-12-7 | Anthracene | ND | 200 | 41 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2000 | 1000 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 200 | 41 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 200 | 41 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 200 | 41 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 200 | 82 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 200 | 41 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 200 | 41 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 410 | 100 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 200 | 41 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 200 | 41 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 410 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 200 | 41 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 200 | 41 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 200 | 82 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 200 | 41 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 200 | 41 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 200 | 41 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 200 | 41 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 200 | 41 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 200 | 82 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 200 | 82 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 410 | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 200 | 82 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 200 | 41 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 410 | 100 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 410 | 200 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 410 | 100 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 410 | 100 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 410 | 200 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 200 | 41 | ug/kg | |
| 86-73-7 | Fluorene | ND | 200 | 41 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 200 | 41 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 200 | 82 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 200 | 82 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 82 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 200 | 82 | ug/kg | |
| 78-59-1 | Isophorone | ND | 200 | 41 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 200 | 41 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 410 | 100 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 410 | 100 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 410 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 200 | 41 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 200 | 41 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 200 | 82 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 41 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 200 | 41 | ug/kg | |
| 129-00-0 | Pyrene | ND | 200 | 82 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 200 | 41 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 66% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017252.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.32 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.0 | 3.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-4,12 | | |
| **Lab Sample ID:** | F35686-13 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 81.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26584.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26417.D | 1 | 10/22/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | 30.2 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 10 | 6.0 | mg/kg | |
| | TPH (> C22-C36) | ND | 10 | 6.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | 53% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035358.D | 1 | 10/24/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.46 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 88% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028328.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 86 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 86 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 86 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 86 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 86 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | 693 | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 86 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 86 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 86 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 86 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 86 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 86 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 71% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 72% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 73% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 75% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017253.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.31 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.8 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 95% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-29,41 | | |
| **Lab Sample ID:** | F35686-14 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26587.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26418.D | 1 | 10/22/05 | ME | 10/19/05 | OP14738 | GIJ1246 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | 30.2 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 66% | 46% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035359.D | 1 | 10/25/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.00 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 71 | 35 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 71 | 28 | ug/kg | |
| 107-02-8 | Acrolein | ND | 35 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 35 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 35 | 7.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.1 | 2.8 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.1 | 3.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.1 | 2.8 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.1 | 2.8 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.1 | 2.8 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.1 | 2.8 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.1 | 2.8 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 35 | 14 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.1 | 2.8 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.1 | 2.8 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.1 | 2.8 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.1 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.1 | 2.8 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.1 | 4.2 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 35 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.1 | 2.8 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 35 | 7.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.1 | 2.8 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 35 | 14 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.1 | 2.8 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.1 | 2.8 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.1 | 2.8 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 35 | 14 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 35 | 14 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.1 | 2.8 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.1 | 2.8 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 14 | 2.8 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 35 | 7.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.1 | 2.8 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 14 | 7.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 35 | 14 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.1 | 2.8 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.1 | 2.8 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 35 | 7.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 71 | 14 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.1 | 2.8 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.1 | 2.8 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.1 | 2.8 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.1 | 2.8 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.1 | 2.8 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.1 | 2.8 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.1 | 2.8 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.1 | 2.8 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 35 | 14 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.1 | 2.8 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 35 | 14 | ug/kg | |
| | m,p-Xylene | ND | 14 | 3.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.1 | 2.8 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 101% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 90% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 92% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028331.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 92 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 92 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 92 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 92 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 92 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 92 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 92 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 92 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 92 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 92 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 72% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 73% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 81% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 74% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017254.D | 1 | 10/21/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.90 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.0 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19-56,72 | | |
| **Lab Sample ID:** | F35686-15 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 70.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26419.D | 1 | 10/22/05 | ME | 10/19/05 | OP14738 | GIJ1246 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.0 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035360.D | 1 | 10/25/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.92 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 61 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 61 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.1 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.1 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.1 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.1 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.1 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.1 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.1 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.1 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.1 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.1 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.1 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.1 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.1 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.1 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.1 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.1 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.1 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.1 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.1 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 61 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.1 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.1 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.1 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.1 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.1 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.1 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.1 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.1 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.1 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.1 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 91% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 93% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028332.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 980 | 390 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 200 | 39 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 39 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 39 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 39 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 980 | 390 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 390 | 78 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | 39 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | 39 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | 39 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 980 | 390 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 980 | 390 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | 39 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 39 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 39 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 200 | 39 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 200 | 39 | ug/kg | |
| 120-12-7 | Anthracene | ND | 200 | 39 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2000 | 980 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 200 | 39 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 200 | 39 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 200 | 39 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 200 | 78 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 200 | 39 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 200 | 39 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 390 | 98 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 200 | 39 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 200 | 39 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 390 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 200 | 39 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 200 | 39 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 200 | 78 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 200 | 39 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 200 | 39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 200 | 39 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 200 | 39 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 200 | 39 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 200 | 78 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 200 | 78 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 390 | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 200 | 78 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 200 | 39 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 390 | 98 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 390 | 200 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 390 | 98 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 390 | 98 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 390 | 200 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 200 | 39 | ug/kg | |
| 86-73-7 | Fluorene | ND | 200 | 39 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 200 | 39 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 200 | 78 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 200 | 78 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 78 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 200 | 78 | ug/kg | |
| 78-59-1 | Isophorone | ND | 200 | 39 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 200 | 39 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 390 | 98 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 390 | 98 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 390 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 200 | 39 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 200 | 39 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 200 | 78 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 39 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 200 | 39 | ug/kg | |
| 129-00-0 | Pyrene | ND | 200 | 78 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 200 | 39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 63% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 63% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 71% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 61% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017255.D | 1 | 10/22/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.16 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 6.7 | 3.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-4,12 | | |
| **Lab Sample ID:** | F35686-16 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 83.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26588.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26513.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | 30.4 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 9.9 | 5.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.9 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67% | 56% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035361.D | 1 | 10/25/05 | RAW | n/a | n/a | VG1360 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.07 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 55 | 27 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 55 | 22 | ug/kg | |
| 107-02-8 | Acrolein | ND | 27 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 27 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 27 | 5.5 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.5 | 2.2 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.5 | 2.7 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.5 | 2.2 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.5 | 2.2 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.5 | 2.2 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.5 | 2.2 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.5 | 2.2 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 27 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.5 | 2.2 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.5 | 2.2 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.5 | 2.2 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.5 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.5 | 2.2 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.5 | 3.3 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 27 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.5 | 2.2 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 27 | 5.5 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.5 | 2.2 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 27 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.5 | 2.2 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.5 | 2.2 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.5 | 2.2 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 27 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 27 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.5 | 2.2 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.5 | 2.2 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.2 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 27 | 5.5 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.5 | 2.2 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.5 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 27 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.5 | 2.2 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.5 | 2.2 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 27 | 5.5 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 55 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.5 | 2.2 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.5 | 2.2 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.5 | 2.2 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.5 | 2.2 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.5 | 2.2 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.5 | 2.2 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.5 | 2.2 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.5 | 2.2 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 27 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.5 | 2.2 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 27 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.7 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.5 | 2.2 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 96% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 93% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028333.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 88 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 88 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 88 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 88 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 88 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 88 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 88 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 88 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 88 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 88 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 70% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 71% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 79% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 70% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 73% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 79% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017258.D | 1 | 10/22/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.31 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.9 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-29,41 | | |
| **Lab Sample ID:** | F35686-17 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 75.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26476.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.5 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035367.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.21 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 56 | 28 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 56 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 28 | 14 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 28 | 14 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 28 | 5.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.6 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.6 | 2.8 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.6 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.6 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.6 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.6 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.6 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 28 | 11 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.6 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.6 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.6 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.6 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.6 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.6 | 3.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 28 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.6 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.6 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 28 | 11 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.6 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.6 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.6 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 28 | 11 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 28 | 11 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.6 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.6 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 11 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 28 | 5.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.6 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 11 | 5.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 28 | 11 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.6 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.6 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 28 | 5.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 56 | 11 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.6 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.6 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.6 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.6 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.6 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.6 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.6 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.6 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 28 | 11 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.6 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 28 | 11 | ug/kg | |
| | m,p-Xylene | ND | 11 | 2.8 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.6 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 92% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 92% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container but was not preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028334.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 92 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 92 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 92 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 92 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 92 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 92 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 92 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 92 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 92 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 92 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 92 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 73% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 74% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 80% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 75% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 76% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 78% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017259.D | 1 | 10/22/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 6.98 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.0 | 3.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB19FD-56,72 | | |
| **Lab Sample ID:** | F35686-18 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 71.5 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26477.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 16.7 | 12 | 7.0 | mg/kg | |
| | TPH (> C22-C36) | 12.4 | 12 | 7.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 67% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035369.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.04 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 66 | 33 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 66 | 26 | ug/kg | |
| 107-02-8 | Acrolein | ND | 33 | 16 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 33 | 16 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 33 | 6.6 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.6 | 3.3 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.6 | 2.6 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.6 | 2.6 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.6 | 2.6 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.6 | 2.6 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 33 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.6 | 2.6 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.6 | 2.6 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.6 | 2.6 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.6 | 2.6 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.6 | 3.9 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 33 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.6 | 2.6 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.6 | 2.6 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 33 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.6 | 2.6 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.6 | 2.6 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.6 | 2.6 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 33 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 33 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.6 | 2.6 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.6 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 33 | 6.6 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.6 | 2.6 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 13 | 6.6 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 33 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.6 | 2.6 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.6 | 2.6 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 33 | 6.6 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 66 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.6 | 2.6 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.6 | 2.6 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.6 | 2.6 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.6 | 2.6 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.6 | 2.6 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.6 | 2.6 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.6 | 2.6 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.6 | 2.6 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 33 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.6 | 2.6 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 33 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.3 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.6 | 2.6 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 99% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 88% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028335.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 440 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 44 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 44 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 44 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 44 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 440 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 440 | 88 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 44 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 44 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 44 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 440 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 440 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 44 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 44 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 44 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 44 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 44 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 44 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 44 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 44 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 88 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 44 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 440 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 44 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 44 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 440 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 44 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 44 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 88 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 44 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 44 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 44 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 88 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 440 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 88 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 44 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 440 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 440 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 440 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 440 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 44 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 44 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 44 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 88 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 88 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 88 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 88 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 44 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 44 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 440 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 440 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 44 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 44 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 88 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 44 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 44 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 88 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 44 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 66% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 68% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017260.D | 1 | 10/22/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.19 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.0 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-4,9 | | |
| **Lab Sample ID:** | F35686-19 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 75.6 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26589.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26514.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.0 g | 1.0 ml |
| Run #2 | 30.1 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.6 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.6 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 58% | 54% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035370.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.77 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 60 | 30 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 60 | 24 | ug/kg | |
| 107-02-8 | Acrolein | ND | 30 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 30 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 30 | 6.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.0 | 3.0 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.0 | 2.4 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.0 | 2.4 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.0 | 2.4 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.0 | 2.4 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 30 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.0 | 2.4 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.0 | 2.4 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.0 | 2.4 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.0 | 2.4 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.0 | 3.6 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 30 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.0 | 2.4 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.0 | 2.4 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 30 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.0 | 2.4 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.0 | 2.4 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.0 | 2.4 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 30 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 30 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.0 | 2.4 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.4 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 30 | 6.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.0 | 2.4 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 30 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.0 | 2.4 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.0 | 2.4 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 30 | 6.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 60 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.0 | 2.4 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.0 | 2.4 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.0 | 2.4 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.0 | 2.4 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.0 | 2.4 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.0 | 2.4 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.0 | 2.4 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.0 | 2.4 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 30 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.0 | 2.4 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 30 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.0 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.0 | 2.4 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 86% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 90% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028336.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 90 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 90 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 90 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 90 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 90 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 90 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 90 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 90 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 90 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 90 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 90 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 67% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 69% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 75% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 68% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017261.D | 1 | 10/22/05 | AB | n/a | n/a | GHH789 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.86 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.9 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-30,39 | | |
| **Lab Sample ID:** | F35686-20 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26479.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.7 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.8 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035371.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 4.75 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 73 | 36 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 73 | 29 | ug/kg | |
| 107-02-8 | Acrolein | ND | 36 | 18 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 36 | 18 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 36 | 7.3 | ug/kg | |
| 71-43-2 | Benzene | ND | 7.3 | 2.9 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 7.3 | 3.6 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-25-2 | Bromoform | ND | 7.3 | 2.9 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 67-66-3 | Chloroform | ND | 7.3 | 2.9 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 7.3 | 2.9 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 7.3 | 2.9 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 7.3 | 2.9 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 36 | 15 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 7.3 | 2.9 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 7.3 | 2.9 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 7.3 | 2.9 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 7.3 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 7.3 | 2.9 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 7.3 | 4.4 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 36 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 7.3 | 2.9 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 36 | 7.3 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 7.3 | 2.9 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 36 | 15 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 7.3 | 2.9 | ug/kg | |
| 110-54-3 | Hexane | ND | 7.3 | 2.9 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 7.3 | 2.9 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 36 | 15 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 36 | 15 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 7.3 | 2.9 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 7.3 | 2.9 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 15 | 2.9 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 36 | 7.3 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 7.3 | 2.9 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 15 | 7.3 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 36 | 15 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 7.3 | 2.9 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 7.3 | 2.9 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 36 | 7.3 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 73 | 15 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 100-42-5 | Styrene | ND | 7.3 | 2.9 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 7.3 | 2.9 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 7.3 | 2.9 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 7.3 | 2.9 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 7.3 | 2.9 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 108-88-3 | Toluene | ND | 7.3 | 2.9 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 7.3 | 2.9 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 7.3 | 2.9 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 36 | 15 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 7.3 | 2.9 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 36 | 15 | ug/kg | |
| | m,p-Xylene | ND | 15 | 3.6 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 7.3 | 2.9 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 94% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 91% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 85% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028337.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 460 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 230 | 46 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 230 | 46 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 230 | 46 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 230 | 46 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 460 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 460 | 91 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 230 | 46 | ug/kg | |
| | 3&4-Methylphenol | ND | 230 | 46 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 230 | 46 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 460 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 460 | ug/kg | |
| 108-95-2 | Phenol | ND | 230 | 46 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 230 | 46 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 230 | 46 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 230 | 46 | ug/kg | |
| 120-12-7 | Anthracene | ND | 230 | 46 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2300 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 230 | 46 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 230 | 46 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 230 | 46 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 230 | 91 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 230 | 46 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 460 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 230 | 46 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 230 | 46 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 460 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 230 | 46 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 230 | 46 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 230 | 91 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 230 | 46 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 230 | 46 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 230 | 46 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 230 | 91 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 460 | 230 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 230 | 91 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 230 | 46 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 460 | 230 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 460 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 460 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 460 | 230 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 230 | 46 | ug/kg | |
| 86-73-7 | Fluorene | ND | 230 | 46 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 230 | 46 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 230 | 91 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 230 | 91 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 230 | 91 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 230 | 91 | ug/kg | |
| 78-59-1 | Isophorone | ND | 230 | 46 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 230 | 46 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 460 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 460 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 230 | 46 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 230 | 46 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 230 | 91 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 230 | 46 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 230 | 46 | ug/kg | |
| 129-00-0 | Pyrene | ND | 230 | 91 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 230 | 46 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 67% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 67% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 77% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 67% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 71% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 76% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017264.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.62 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.1 | 4.0 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB20-62,70 | | |
| **Lab Sample ID:** | F35686-21 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 72.4 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26480.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.2 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 65% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035403.D | 1 | 10/26/05 | JG | n/a | n/a | VG1362 |
| Run #2 [b] | G0035377.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.95 g | | |
| Run #2 | 4.76 g | 5.0 ml | 100 ul |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 51 | 25 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 51 | 20 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | 13 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | 13 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 25 | 5.1 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.1 | 2.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.1 | 2.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.1 | 2.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.1 | 2.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.1 | 2.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.1 | 2.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.1 | 2.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.1 | 2.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.1 | 2.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | 10 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.1 | 2.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.1 | 2.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.1 | 2.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.1 | 2.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.1 | 2.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.1 | 2.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.1 | 2.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.1 | 2.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.1 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.1 | 2.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.1 | 3.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.1 | 2.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.1 | 2.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 25 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.1 | 2.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.1 | 2.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 25 | 5.1 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.1 | 2.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.1 | 2.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.1 | 2.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.1 | 2.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | 10 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 25 | 10 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.1 | 2.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.1 | 2.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 10 | 2.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 25 | 5.1 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.1 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.1 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | 10 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.1 | 2.0 | ug/kg | |
| 91-20-3 | Naphthalene | 3.3 | 5.1 | 2.0 | ug/kg | JB |
| 76-01-7 | Pentachloroethane | ND | 25 | 5.1 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 51 | 10 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.1 | 2.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.1 | 2.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.1 | 2.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.1 | 2.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.1 | 2.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.1 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 10.4 | 5.1 | 2.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | 9.2 | 5.1 | 2.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.1 | 2.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.1 | 2.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.1 | 2.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.1 | 2.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 25 | 10 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.1 | 2.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | 10 | ug/kg | |
| | m,p-Xylene | ND | 10 | 2.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.1 | 2.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 95% | 78-123% |
| 2037-26-5 | Toluene-D8 | 87% | 89% | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 100% | 84% | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 96% | 84% | 74-125% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(b) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028338.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 990 | 400 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 200 | 40 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 200 | 40 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 200 | 40 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 200 | 40 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 990 | 400 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 400 | 79 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 200 | 40 | ug/kg | |
| | 3&4-Methylphenol | ND | 200 | 40 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 200 | 40 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 990 | 400 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 990 | 400 | ug/kg | |
| 108-95-2 | Phenol | ND | 200 | 40 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 200 | 40 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 200 | 40 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 200 | 40 | ug/kg | |
| 120-12-7 | Anthracene | ND | 200 | 40 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2000 | 990 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 200 | 40 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 200 | 40 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 200 | 40 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 200 | 79 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 200 | 40 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 400 | 99 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 200 | 40 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 200 | 40 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 400 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 200 | 40 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 200 | 40 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 200 | 79 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 200 | 40 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 200 | 40 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 200 | 40 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 200 | 79 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 200 | 79 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 400 | 200 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 200 | 79 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 200 | 40 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 400 | 99 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 400 | 200 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 400 | 99 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 400 | 99 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 400 | 200 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 200 | 40 | ug/kg | |
| 86-73-7 | Fluorene | ND | 200 | 40 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 200 | 40 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 200 | 79 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 200 | 79 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 200 | 79 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 200 | 79 | ug/kg | |
| 78-59-1 | Isophorone | ND | 200 | 40 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 200 | 40 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 400 | 99 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 400 | 99 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 400 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 200 | 40 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 200 | 40 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 200 | 79 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 200 | 40 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 200 | 40 | ug/kg | |
| 129-00-0 | Pyrene | ND | 200 | 79 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 200 | 40 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 75% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 73% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 81% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 76% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 77% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017265.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.76 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 14.2 | 7.4 | 3.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 100% [b] | | 62-135% |
| 460-00-4 | 4-Bromofluorobenzene | 141% [c] | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.
(b) Result reported from PID.
(c) Outside control limits due to matrix interference.

ND = Not detected MDL - Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-7,12 | | |
| **Lab Sample ID:** | F35686-22 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 82.8 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26481.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.8 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 8.40 | 9.8 | 5.9 | mg/kg | J |
| | TPH (> C22-C36) | ND | 9.8 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035373.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.42 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 50 | 20 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | 13 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | 13 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 25 | 5.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | 2.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | 2.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 2.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 2.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.0 | 2.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 2.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 2.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | 10 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 2.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 3.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 25 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 25 | 5.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 2.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.0 | 2.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 2.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | 10 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 25 | 10 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.0 | 2.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.0 | 2.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 10 | 2.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 25 | 5.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | 10 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | 2.0 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 25 | 5.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 50 | 10 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | 2.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | 2.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 25 | 10 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 2.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | 10 | ug/kg | |
| | m,p-Xylene | ND | 10 | 2.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.0 | 2.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 97% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 88% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 82% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 89% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028339.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 420 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 42 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 42 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 42 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 42 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 420 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 420 | 85 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 42 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 42 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 42 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 420 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 420 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 42 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 42 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 42 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 42 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 42 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 42 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 42 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 42 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 85 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 42 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 420 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 42 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 42 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 420 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 42 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 42 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 85 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 42 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 42 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 42 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 420 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 85 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 42 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 420 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 420 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 420 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 420 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 42 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 42 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 42 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 85 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 85 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 85 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 85 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 42 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 42 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 420 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 420 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 42 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 42 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 85 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 42 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 42 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 85 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 42 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 65% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 66% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 76% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 64% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 68% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 80% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017266.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.70 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.1 | 3.5 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 94% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-32,37 | | |
| **Lab Sample ID:** | F35686-23 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 77.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | IJ26590.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |
| Run #2 | IJ26515.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | 30.3 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 64% | 49% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035374.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.07 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 67 | 34 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 67 | 27 | ug/kg | |
| 107-02-8 | Acrolein | ND | 34 | 17 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 34 | 17 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 34 | 6.7 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.7 | 3.4 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.7 | 2.7 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.7 | 2.7 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.7 | 2.7 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.7 | 2.7 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 34 | 13 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.7 | 2.7 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.7 | 2.7 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.7 | 2.7 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.7 | 2.7 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.7 | 4.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 34 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.7 | 2.7 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 34 | 6.7 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.7 | 2.7 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 34 | 13 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.7 | 2.7 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.7 | 2.7 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.7 | 2.7 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 34 | 13 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 34 | 13 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.7 | 2.7 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 13 | 2.7 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 34 | 6.7 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.7 | 2.7 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 13 | 6.7 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 34 | 13 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.7 | 2.7 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.7 | 2.7 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 34 | 6.7 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 67 | 13 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.7 | 2.7 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.7 | 2.7 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.7 | 2.7 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.7 | 2.7 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.7 | 2.7 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.7 | 2.7 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.7 | 2.7 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.7 | 2.7 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 34 | 13 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.7 | 2.7 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 34 | 13 | ug/kg | |
| | m,p-Xylene | ND | 13 | 3.4 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.7 | 2.7 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 95% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 87% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 82% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 82% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028340.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 450 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 220 | 45 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 220 | 45 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 220 | 45 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 220 | 45 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 450 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 450 | 89 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 220 | 45 | ug/kg | |
| | 3&4-Methylphenol | ND | 220 | 45 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 220 | 45 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 450 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 450 | ug/kg | |
| 108-95-2 | Phenol | ND | 220 | 45 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 220 | 45 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 220 | 45 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 220 | 45 | ug/kg | |
| 120-12-7 | Anthracene | ND | 220 | 45 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2200 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 220 | 45 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 220 | 45 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 220 | 45 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 220 | 89 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 220 | 45 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 450 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 220 | 45 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 220 | 45 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 450 | 180 | ug/kg | |
| 218-01-9 | Chrysene | ND | 220 | 45 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 220 | 45 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 220 | 89 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 220 | 45 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 220 | 45 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 220 | 45 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 220 | 89 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 450 | 220 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 220 | 89 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 220 | 45 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 450 | 220 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 450 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 450 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 450 | 220 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 220 | 45 | ug/kg | |
| 86-73-7 | Fluorene | ND | 220 | 45 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 220 | 45 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 220 | 89 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 220 | 89 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 220 | 89 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 220 | 89 | ug/kg | |
| 78-59-1 | Isophorone | ND | 220 | 45 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 220 | 45 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 450 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 450 | 160 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 220 | 45 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 220 | 45 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 220 | 89 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 220 | 45 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 220 | 45 | ug/kg | |
| 129-00-0 | Pyrene | ND | 220 | 89 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 220 | 45 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 59% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 59% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 60% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 62% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 66% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017267.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.91 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 8.8 | 4.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 90% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21-62,69 | | |
| **Lab Sample ID:** | F35686-24 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 73.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26516.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.7 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.7 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035404.D | 1 | 10/26/05 | JG | n/a | n/a | VG1362 |
| Run #2 [b] | G0035378.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.92 g | | |
| Run #2 | 4.60 g | 5.0 ml | 100 ul |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 50 | 25 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 50 | 20 | ug/kg | |
| 107-02-8 | Acrolein | ND | 25 | 13 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 25 | 13 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 25 | 5.0 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.0 | 2.0 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.0 | 2.5 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.0 | 2.0 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.0 | 2.0 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.0 | 2.0 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.0 | 2.0 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.0 | 2.0 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 25 | 10 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.0 | 2.0 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.0 | 2.0 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.0 | 2.0 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.0 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.0 | 2.0 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.0 | 3.0 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 25 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.0 | 2.0 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 25 | 5.0 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.0 | 2.0 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 25 | 10 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.0 | 2.0 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.0 | 2.0 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.0 | 2.0 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 25 | 10 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 25 | 10 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.0 | 2.0 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.0 | 2.0 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 10 | 2.0 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 25 | 5.0 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.0 | 2.0 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 10 | 5.0 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 25 | 10 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.0 | 2.0 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.0 | 2.0 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 25 | 5.0 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 50 | 10 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.0 | 2.0 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.0 | 2.0 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.0 | 2.0 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.0 | 2.0 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.0 | 2.0 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.9 | 5.0 | 2.0 | ug/kg | J |
| 108-67-8 | 1,3,5-Trimethylbenzene | 3.4 | 5.0 | 2.0 | ug/kg | J |
| 127-18-4 | Tetrachloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.0 | 2.0 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.0 | 2.0 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.0 | 2.0 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 25 | 10 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.0 | 2.0 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 25 | 10 | ug/kg | |
| | m,p-Xylene | ND | 10 | 2.5 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.0 | 2.0 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 103% | 94% | 78-123% |
| 2037-26-5 | Toluene-D8 | 87% | 92% | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 99% | 87% | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 99% | 94% | 74-125% |

(a) Sample re-analyzed beyond hold time; reported results are considered minimum values.
(b) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028341.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.6 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 970 | 390 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 190 | 39 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 190 | 39 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 190 | 39 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 190 | 39 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 970 | 390 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 390 | 78 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 190 | 39 | ug/kg | |
| | 3&4-Methylphenol | ND | 190 | 39 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 190 | 39 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 970 | 390 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 970 | 390 | ug/kg | |
| 108-95-2 | Phenol | ND | 190 | 39 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 190 | 39 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 190 | 39 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 190 | 39 | ug/kg | |
| 120-12-7 | Anthracene | ND | 190 | 39 | ug/kg | |
| 92-87-5 | Benzidine | ND | 1900 | 970 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 190 | 39 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 190 | 39 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 190 | 39 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 190 | 78 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 190 | 39 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 390 | 97 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 190 | 39 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 190 | 39 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 390 | 160 | ug/kg | |
| 218-01-9 | Chrysene | ND | 190 | 39 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 190 | 39 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 190 | 78 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 190 | 39 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 190 | 39 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 190 | 39 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 190 | 78 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 190 | 78 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 390 | 190 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 190 | 78 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 190 | 39 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 390 | 97 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 390 | 190 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 390 | 97 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 390 | 97 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 390 | 190 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 190 | 39 | ug/kg | |
| 86-73-7 | Fluorene | ND | 190 | 39 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 190 | 39 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 190 | 78 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 190 | 78 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 190 | 78 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 190 | 78 | ug/kg | |
| 78-59-1 | Isophorone | ND | 190 | 39 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 190 | 39 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 390 | 97 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 390 | 97 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 390 | 140 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 190 | 39 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 190 | 39 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 190 | 78 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 190 | 39 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 190 | 39 | ug/kg | |
| 129-00-0 | Pyrene | ND | 190 | 78 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 190 | 39 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 53% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 53% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 66% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 55% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 53% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 63% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017270.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 4.60 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | 5.61 | 7.4 | 3.7 | mg/kg | J |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 106% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 93% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-7,12 | | |
| **Lab Sample ID:** | F35686-25 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 84.1 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26486.D | 1 | 10/27/05 | SD | 10/24/05 | OP14784 | GIJ1249 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.4 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | 58.0 | 9.8 | 5.9 | mg/kg | |
| | TPH (> C22-C36) | ND | 9.8 | 5.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 69% | | 57-115% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035375.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 5.25 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 62 | 31 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 62 | 25 | ug/kg | |
| 107-02-8 | Acrolein | ND | 31 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 31 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 31 | 6.2 | ug/kg | |
| 71-43-2 | Benzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 6.2 | 3.1 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-25-2 | Bromoform | ND | 6.2 | 2.5 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 67-66-3 | Chloroform | ND | 6.2 | 2.5 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 6.2 | 2.5 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 6.2 | 2.5 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 31 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 6.2 | 2.5 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 6.2 | 2.5 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 6.2 | 2.5 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 6.2 | 2.5 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 6.2 | 3.7 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 31 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 6.2 | 2.5 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 6.2 | 2.5 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 31 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 6.2 | 2.5 | ug/kg | |
| 110-54-3 | Hexane | ND | 6.2 | 2.5 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 6.2 | 2.5 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 31 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 31 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 6.2 | 2.5 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.5 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 31 | 6.2 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 6.2 | 2.5 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 6.2 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 31 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 6.2 | 2.5 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 6.2 | 2.5 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 31 | 6.2 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 62 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 100-42-5 | Styrene | ND | 6.2 | 2.5 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 6.2 | 2.5 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 6.2 | 2.5 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 6.2 | 2.5 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 6.2 | 2.5 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 108-88-3 | Toluene | ND | 6.2 | 2.5 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 6.2 | 2.5 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 6.2 | 2.5 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 31 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 6.2 | 2.5 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 31 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 3.1 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 6.2 | 2.5 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 91% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 87% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 86% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 83% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028342.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.5 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1100 | 430 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 210 | 43 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 210 | 43 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 210 | 43 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 210 | 43 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1100 | 430 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 430 | 85 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 210 | 43 | ug/kg | |
| | 3&4-Methylphenol | ND | 210 | 43 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 210 | 43 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1100 | 430 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1100 | 430 | ug/kg | |
| 108-95-2 | Phenol | ND | 210 | 43 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 210 | 43 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 210 | 43 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 210 | 43 | ug/kg | |
| 120-12-7 | Anthracene | ND | 210 | 43 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2100 | 1100 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 210 | 43 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 210 | 43 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 210 | 43 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 210 | 85 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 210 | 43 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 430 | 110 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 210 | 43 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 210 | 43 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 430 | 170 | ug/kg | |
| 218-01-9 | Chrysene | ND | 210 | 43 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 210 | 43 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 210 | 85 | ug/kg | |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 210 | 43 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 210 | 43 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 210 | 43 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 210 | 85 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 430 | 210 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 210 | 85 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 210 | 43 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 430 | 210 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 430 | 110 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 430 | 110 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 430 | 210 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 210 | 43 | ug/kg | |
| 86-73-7 | Fluorene | ND | 210 | 43 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 210 | 43 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 210 | 85 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 210 | 85 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 210 | 85 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 210 | 85 | ug/kg | |
| 78-59-1 | Isophorone | ND | 210 | 43 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 210 | 43 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 430 | 110 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 430 | 150 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 210 | 43 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 210 | 43 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 210 | 85 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 210 | 43 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 210 | 43 | ug/kg | |
| 129-00-0 | Pyrene | ND | 210 | 85 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 210 | 43 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 62% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 63% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 72% | | 50-128% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 63% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 66% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 75% | | 45-135% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017271.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.09 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 7.9 | 3.9 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 89% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 94% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-32,37 | | |
| **Lab Sample ID:** | F35686-26 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 76.9 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26517.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |
| Run #2 [a] | IJ26591.D | 1 | 11/01/05 | SD | 10/31/05 | OP14860 | GIJ1252 |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | 30.4 g | 1.0 ml |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 11 | 6.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 11 | 6.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 53% [b] | 49% | 57-115% |

(a) Sample re-extracted beyond hold time; reported results are considered minimum values. Higher values were reported.
(b) Confirmed ND by re-extraction and reanalysis beyond holdtime.

ND = Not detected MDL - Method Detection Limit
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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | G0035376.D | 1 | 10/25/05 | JG | n/a | n/a | VG1361 |
| Run #2 | | | | | | | |

| | Initial Weight |
|---|---|
| Run #1 | 6.30 g |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 59 | 29 | ug/kg | |
| 75-05-8 | Acetonitrile | ND | 59 | 23 | ug/kg | |
| 107-02-8 | Acrolein | ND | 29 | 15 | ug/kg | |
| 107-13-1 | Acrylonitrile | ND | 29 | 15 | ug/kg | |
| 107-05-1 | Allyl chloride | ND | 29 | 5.9 | ug/kg | |
| 71-43-2 | Benzene | ND | 5.9 | 2.3 | ug/kg | |
| 100-44-7 | Benzyl Chloride | ND | 5.9 | 2.9 | ug/kg | |
| 108-86-1 | Bromobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 74-97-5 | Bromochloromethane | ND | 5.9 | 2.3 | ug/kg | |
| 75-27-4 | Bromodichloromethane | ND | 5.9 | 2.3 | ug/kg | |
| 75-25-2 | Bromoform | ND | 5.9 | 2.3 | ug/kg | |
| 104-51-8 | n-Butylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 135-98-8 | sec-Butylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 98-06-6 | tert-Butylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 108-90-7 | Chlorobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 75-00-3 | Chloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 67-66-3 | Chloroform | ND | 5.9 | 2.3 | ug/kg | |
| 544-10-5 | 1-Chlorohexane | ND | 5.9 | 2.3 | ug/kg | |
| 95-49-8 | o-Chlorotoluene | ND | 5.9 | 2.3 | ug/kg | |
| 106-43-4 | p-Chlorotoluene | ND | 5.9 | 2.3 | ug/kg | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 29 | 12 | ug/kg | |
| 75-15-0 | Carbon disulfide | ND | 5.9 | 2.3 | ug/kg | |
| 56-23-5 | Carbon tetrachloride | ND | 5.9 | 2.3 | ug/kg | |
| 75-34-3 | 1,1-Dichloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 5.9 | 2.3 | ug/kg | |
| 563-58-6 | 1,1-Dichloropropene | ND | 5.9 | 2.3 | ug/kg | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 5.9 | 2.3 | ug/kg | |
| 106-93-4 | 1,2-Dibromoethane | ND | 5.9 | 2.3 | ug/kg | |
| 107-06-2 | 1,2-Dichloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 78-87-5 | 1,2-Dichloropropane | ND | 5.9 | 2.3 | ug/kg | |
| 142-28-9 | 1,3-Dichloropropane | ND | 5.9 | 2.3 | ug/kg | |
| 594-20-7 | 2,2-Dichloropropane | ND | 5.9 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 5.9 | 2.3 | ug/kg | |
| 75-71-8 | Dichlorodifluoromethane | ND | 5.9 | 3.5 | ug/kg | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 5.9 | 2.3 | ug/kg | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 5.9 | 2.3 | ug/kg | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 29 | | ug/kg | |
| 541-73-1 | m-Dichlorobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 95-50-1 | o-Dichlorobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 106-46-7 | p-Dichlorobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 5.9 | 2.3 | ug/kg | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 5.9 | 2.3 | ug/kg | |
| 100-41-4 | Ethylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 97-63-2 | Ethyl methacrylate | ND | 29 | 5.9 | ug/kg | |
| 76-13-1 | Freon 113 | ND | 5.9 | 2.3 | ug/kg | |
| 591-78-6 | 2-Hexanone | ND | 29 | 12 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 5.9 | 2.3 | ug/kg | |
| 110-54-3 | Hexane | ND | 5.9 | 2.3 | ug/kg | |
| 98-82-8 | Isopropylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 99-87-6 | p-Isopropyltoluene | ND | 5.9 | 2.3 | ug/kg | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 29 | 12 | ug/kg | |
| 126-98-7 | Methacrylonitrile | ND | 29 | 12 | ug/kg | |
| 74-83-9 | Methyl bromide | ND | 5.9 | 2.3 | ug/kg | |
| 74-87-3 | Methyl chloride | ND | 5.9 | 2.3 | ug/kg | |
| 74-88-4 | Methyl iodide | ND | 12 | 2.3 | ug/kg | |
| 80-62-6 | Methyl methacrylate | ND | 29 | 5.9 | ug/kg | |
| 74-95-3 | Methylene bromide | ND | 5.9 | 2.3 | ug/kg | |
| 75-09-2 | Methylene chloride | ND | 12 | 5.9 | ug/kg | |
| 78-93-3 | Methyl ethyl ketone | ND | 29 | 12 | ug/kg | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 5.9 | 2.3 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 5.9 | 2.3 | ug/kg | |
| 76-01-7 | Pentachloroethane | ND | 29 | 5.9 | ug/kg | |
| 107-12-0 | Propionitrile | ND | 59 | 12 | ug/kg | |
| 103-65-1 | n-Propylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 100-42-5 | Styrene | ND | 5.9 | 2.3 | ug/kg | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 5.9 | 2.3 | ug/kg | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 5.9 | 2.3 | ug/kg | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 5.9 | 2.3 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 5.9 | 2.3 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 5.9 | 2.3 | ug/kg | |
| 127-18-4 | Tetrachloroethylene | ND | 5.9 | 2.3 | ug/kg | |
| 108-88-3 | Toluene | ND | 5.9 | 2.3 | ug/kg | |
| 79-01-6 | Trichloroethylene | ND | 5.9 | 2.3 | ug/kg | |
| 75-69-4 | Trichlorofluoromethane | ND | 5.9 | 2.3 | ug/kg | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 29 | 12 | ug/kg | |
| 75-01-4 | Vinyl chloride | ND | 5.9 | 2.3 | ug/kg | |
| 108-05-4 | Vinyl Acetate | ND | 29 | 12 | ug/kg | |
| | m,p-Xylene | ND | 12 | 2.9 | ug/kg | |
| 95-47-6 | o-Xylene | ND | 5.9 | 2.3 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 98% | | 78-123% |
| 2037-26-5 | Toluene-D8 | 87% | | 71-137% |
| 460-00-4 | 4-Bromofluorobenzene | 82% | | 61-157% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 86% | | 74-125% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | L028343.D | 1 | 10/25/05 | NJ | 10/21/05 | OP14774 | SL1484 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.3 g | 1.0 ml |
| Run #2 | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 65-85-0 | Benzoic acid | ND | 1200 | 490 | ug/kg | |
| 95-57-8 | 2-Chlorophenol | ND | 240 | 49 | ug/kg | |
| 59-50-7 | 4-Chloro-3-methyl phenol | ND | 240 | 49 | ug/kg | |
| 120-83-2 | 2,4-Dichlorophenol | ND | 240 | 49 | ug/kg | |
| 105-67-9 | 2,4-Dimethylphenol | ND | 240 | 49 | ug/kg | |
| 51-28-5 | 2,4-Dinitrophenol | ND | 1200 | 490 | ug/kg | |
| 534-52-1 | 4,6-Dinitro-o-cresol | ND | 490 | 97 | ug/kg | |
| 95-48-7 | 2-Methylphenol | ND | 240 | 49 | ug/kg | |
| | 3&4-Methylphenol | ND | 240 | 49 | ug/kg | |
| 88-75-5 | 2-Nitrophenol | ND | 240 | 49 | ug/kg | |
| 100-02-7 | 4-Nitrophenol | ND | 1200 | 490 | ug/kg | |
| 87-86-5 | Pentachlorophenol | ND | 1200 | 490 | ug/kg | |
| 108-95-2 | Phenol | ND | 240 | 49 | ug/kg | |
| 95-95-4 | 2,4,5-Trichlorophenol | ND | 240 | 49 | ug/kg | |
| 88-06-2 | 2,4,6-Trichlorophenol | ND | 240 | 49 | ug/kg | |
| 83-32-9 | Acenaphthene | ND | 240 | 49 | ug/kg | |
| 208-96-8 | Acenaphthylene | ND | 240 | 49 | ug/kg | |
| 120-12-7 | Anthracene | ND | 240 | 49 | ug/kg | |
| 92-87-5 | Benzidine | ND | 2400 | 1200 | ug/kg | |
| 56-55-3 | Benzo(a)anthracene | ND | 240 | 49 | ug/kg | |
| 50-32-8 | Benzo(a)pyrene | ND | 240 | 49 | ug/kg | |
| 205-99-2 | Benzo(b)fluoranthene | ND | 240 | 49 | ug/kg | |
| 191-24-2 | Benzo(g,h,i)perylene | ND | 240 | 97 | ug/kg | |
| 207-08-9 | Benzo(k)fluoranthene | ND | 240 | 49 | ug/kg | |
| 101-55-3 | 4-Bromophenyl phenyl ether | ND | 240 | 49 | ug/kg | |
| 85-68-7 | Butyl benzyl phthalate | ND | 490 | 120 | ug/kg | |
| 100-51-6 | Benzyl Alcohol | ND | 240 | 49 | ug/kg | |
| 91-58-7 | 2-Chloronaphthalene | ND | 240 | 49 | ug/kg | |
| 106-47-8 | 4-Chloroaniline | ND | 490 | 190 | ug/kg | |
| 218-01-9 | Chrysene | ND | 240 | 49 | ug/kg | |
| 111-91-1 | bis(2-Chloroethoxy)methane | ND | 240 | 49 | ug/kg | |
| 111-44-4 | bis(2-Chloroethyl)ether | ND | 240 | 97 | ug/kg | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 108-60-1 | bis(2-Chloroisopropyl)ether | ND | 240 | 49 | ug/kg | |
| 7005-72-3 | 4-Chlorophenyl phenyl ether | ND | 240 | 49 | ug/kg | |
| 95-50-1 | 1,2-Dichlorobenzene | ND | 240 | 49 | ug/kg | |
| 541-73-1 | 1,3-Dichlorobenzene | ND | 240 | 49 | ug/kg | |
| 106-46-7 | 1,4-Dichlorobenzene | ND | 240 | 49 | ug/kg | |
| 121-14-2 | 2,4-Dinitrotoluene | ND | 240 | 97 | ug/kg | |
| 606-20-2 | 2,6-Dinitrotoluene | ND | 240 | 97 | ug/kg | |
| 91-94-1 | 3,3'-Dichlorobenzidine | ND | 490 | 240 | ug/kg | |
| 53-70-3 | Dibenzo(a,h)anthracene | ND | 240 | 97 | ug/kg | |
| 132-64-9 | Dibenzofuran | ND | 240 | 49 | ug/kg | |
| 84-74-2 | Di-n-butyl phthalate | ND | 490 | 120 | ug/kg | |
| 117-84-0 | Di-n-octyl phthalate | ND | 490 | 240 | ug/kg | |
| 84-66-2 | Diethyl phthalate | ND | 490 | 120 | ug/kg | |
| 131-11-3 | Dimethyl phthalate | ND | 490 | 120 | ug/kg | |
| 117-81-7 | bis(2-Ethylhexyl)phthalate | ND | 490 | 240 | ug/kg | |
| 206-44-0 | Fluoranthene | ND | 240 | 49 | ug/kg | |
| 86-73-7 | Fluorene | ND | 240 | 49 | ug/kg | |
| 118-74-1 | Hexachlorobenzene | ND | 240 | 49 | ug/kg | |
| 87-68-3 | Hexachlorobutadiene | ND | 240 | 97 | ug/kg | |
| 77-47-4 | Hexachlorocyclopentadiene | ND | 240 | 97 | ug/kg | |
| 67-72-1 | Hexachloroethane | ND | 240 | 97 | ug/kg | |
| 193-39-5 | Indeno(1,2,3-cd)pyrene | ND | 240 | 97 | ug/kg | |
| 78-59-1 | Isophorone | ND | 240 | 49 | ug/kg | |
| 91-57-6 | 2-Methylnaphthalene | ND | 240 | 49 | ug/kg | |
| 88-74-4 | 2-Nitroaniline | ND | 490 | 120 | ug/kg | |
| 99-09-2 | 3-Nitroaniline | ND | 490 | 120 | ug/kg | |
| 100-01-6 | 4-Nitroaniline | ND | 490 | 170 | ug/kg | |
| 91-20-3 | Naphthalene | ND | 240 | 49 | ug/kg | |
| 98-95-3 | Nitrobenzene | ND | 240 | 49 | ug/kg | |
| 621-64-7 | N-Nitroso-di-n-propylamine | ND | 240 | 97 | ug/kg | |
| 86-30-6 | N-Nitrosodiphenylamine | ND | 240 | 49 | ug/kg | |
| 85-01-8 | Phenanthrene | ND | 240 | 49 | ug/kg | |
| 129-00-0 | Pyrene | ND | 240 | 97 | ug/kg | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 240 | 49 | ug/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 367-12-4 | 2-Fluorophenol | 65% | | 45-114% |
| 4165-62-2 | Phenol-d5 | 65% | | 44-124% |
| 118-79-6 | 2,4,6-Tribromophenol | 73% | | 50-128% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8270C SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

**ABN Special List**

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 4165-60-0 | Nitrobenzene-d5 | 63% | | 41-123% |
| 321-60-8 | 2-Fluorobiphenyl | 67% | | 46-122% |
| 1718-51-0 | Terphenyl-d14 | 73% | | 45-135% |

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis



| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 [a] | HH017272.D | 1 | 10/22/05 | AB | n/a | n/a | GHH790 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume | Methanol Aliquot |
|---|---|---|---|
| Run #1 | 5.05 g | 5.0 ml | 100 ul |
| Run #2 | | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH-GRO (C6-C10) | ND | 9.7 | 4.8 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 460-00-4 | 4-Bromofluorobenzene | 88% | | 62-135% |
| 98-08-8 | aaa-Trifluorotoluene | 92% | | 65-118% |

(a) Sample was received in a bulk container and preserved within 48 hours of sampling.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | WPOL-SB21FD-62,69 | | |
| **Lab Sample ID:** | F35686-27 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | SO - Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8015 M SW846 3550B | **Percent Solids:** | 67.7 |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | IJ26518.D | 1 | 10/28/05 | SD | 10/24/05 | OP14784 | GIJ1250 |
| Run #2 | | | | | | | |

| | Initial Weight | Final Volume |
|---|---|---|
| Run #1 | 30.1 g | 1.0 ml |
| Run #2 | | |

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | TPH (C10-C22) | ND | 12 | 7.4 | mg/kg | |
| | TPH (> C22-C36) | ND | 12 | 7.4 | mg/kg | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 60% | | 57-115% |

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E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35686-28 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

| | File ID | DF | Analyzed | By | Prep Date | Prep Batch | Analytical Batch |
|---|---|---|---|---|---|---|---|
| Run #1 | J018533.D | 1 | 10/14/05 | MM | n/a | n/a | VJ766 |
| Run #2 | | | | | | | |

| | Purge Volume |
|---|---|
| Run #1 | 5.0 ml |
| Run #2 | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 67-64-1 | Acetone | ND | 25 | 5.0 | ug/l | |
| 75-05-8 | Acetonitrile | ND | 20 | 10 | ug/l | |
| 107-02-8 | Acrolein | ND | 10 | 5.0 | ug/l | |
| 107-13-1 | Acrylonitrile | ND | 10 | 5.0 | ug/l | |
| 107-05-1 | Allyl chloride | ND | 10 | 5.0 | ug/l | |
| 71-43-2 | Benzene | ND | 1.0 | 0.50 | ug/l | |
| 100-44-7 | Benzyl Chloride | ND | 1.0 | 0.60 | ug/l | |
| 108-86-1 | Bromobenzene | ND | 1.0 | 0.50 | ug/l | |
| 74-97-5 | Bromochloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-27-4 | Bromodichloromethane | ND | 1.0 | 0.50 | ug/l | |
| 75-25-2 | Bromoform | ND | 1.0 | 0.50 | ug/l | |
| 104-51-8 | n-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 135-98-8 | sec-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 98-06-6 | tert-Butylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 108-90-7 | Chlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 75-00-3 | Chloroethane | ND | 2.0 | 1.0 | ug/l | |
| 67-66-3 | Chloroform | ND | 1.0 | 0.50 | ug/l | |
| 544-10-5 | 1-Chlorohexane | ND | 2.0 | 1.0 | ug/l | |
| 95-49-8 | o-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 106-43-4 | p-Chlorotoluene | ND | 1.0 | 0.50 | ug/l | |
| 110-75-8 | 2-Chloroethyl vinyl ether | ND | 5.0 | 2.5 | ug/l | |
| 75-15-0 | Carbon disulfide | ND | 2.0 | 1.0 | ug/l | |
| 56-23-5 | Carbon tetrachloride | ND | 1.0 | 0.50 | ug/l | |
| 75-34-3 | 1,1-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 75-35-4 | 1,1-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 563-58-6 | 1,1-Dichloropropene | ND | 1.0 | 0.50 | ug/l | |
| 96-12-8 | 1,2-Dibromo-3-chloropropane | ND | 2.0 | 1.0 | ug/l | |
| 106-93-4 | 1,2-Dibromoethane | ND | 1.0 | 0.50 | ug/l | |
| 107-06-2 | 1,2-Dichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 78-87-5 | 1,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 142-28-9 | 1,3-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |
| 594-20-7 | 2,2-Dichloropropane | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35686-28 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | ND | 1.0 | 0.40 | ug/l | |
| 75-71-8 | Dichlorodifluoromethane | ND | 1.0 | 0.50 | ug/l | |
| 156-59-2 | cis-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-01-5 | cis-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 1476-11-5 | cis-1,4-Dichloro-2-Butene | ND | 10 | | ug/l | |
| 541-73-1 | m-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 95-50-1 | o-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 106-46-7 | p-Dichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 156-60-5 | trans-1,2-Dichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 10061-02-6 | trans-1,3-Dichloropropene | ND | 1.0 | 0.30 | ug/l | |
| 100-41-4 | Ethylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 97-63-2 | Ethyl methacrylate | ND | 5.0 | 2.0 | ug/l | |
| 76-13-1 | Freon 113 | ND | 1.0 | 0.60 | ug/l | |
| 591-78-6 | 2-Hexanone | ND | 5.0 | 2.5 | ug/l | |
| 87-68-3 | Hexachlorobutadiene | ND | 2.0 | 0.50 | ug/l | |
| 110-54-3 | Hexane | ND | 2.0 | 1.0 | ug/l | |
| 98-82-8 | Isopropylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 99-87-6 | p-Isopropyltoluene | ND | 1.0 | 0.50 | ug/l | |
| 108-10-1 | 4-Methyl-2-pentanone | ND | 5.0 | 2.5 | ug/l | |
| 126-98-7 | Methacrylonitrile | ND | 20 | 10 | ug/l | |
| 74-83-9 | Methyl bromide | ND | 2.0 | 1.0 | ug/l | |
| 74-87-3 | Methyl chloride | ND | 2.0 | 1.0 | ug/l | |
| 74-88-4 | Methyl iodide | ND | 5.0 | 2.5 | ug/l | |
| 80-62-6 | Methyl methacrylate | ND | 5.0 | 2.5 | ug/l | |
| 74-95-3 | Methylene bromide | ND | 2.0 | 0.50 | ug/l | |
| 75-09-2 | Methylene chloride | ND | 5.0 | 1.0 | ug/l | |
| 78-93-3 | Methyl ethyl ketone | ND | 5.0 | 2.5 | ug/l | |
| 1634-04-4 | Methyl Tert Butyl Ether | ND | 1.0 | 0.50 | ug/l | |
| 91-20-3 | Naphthalene | ND | 2.0 | 1.0 | ug/l | |
| 76-01-7 | Pentachloroethane | ND | 10 | 5.0 | ug/l | |
| 107-12-0 | Propionitrile | ND | 20 | 10 | ug/l | |
| 103-65-1 | n-Propylbenzene | ND | 1.0 | 0.50 | ug/l | |
| 100-42-5 | Styrene | ND | 1.0 | 0.50 | ug/l | |
| 630-20-6 | 1,1,1,2-Tetrachloroethane | ND | 1.0 | 0.50 | ug/l | |
| 71-55-6 | 1,1,1-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | ND | 1.0 | 0.40 | ug/l | |
| 79-00-5 | 1,1,2-Trichloroethane | ND | 1.0 | 0.50 | ug/l | |
| 87-61-6 | 1,2,3-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |
| 96-18-4 | 1,2,3-Trichloropropane | ND | 2.0 | 1.0 | ug/l | |
| 120-82-1 | 1,2,4-Trichlorobenzene | ND | 1.0 | 0.50 | ug/l | |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | TRIP BLANK | | |
| **Lab Sample ID:** | F35686-28 | **Date Sampled:** | 10/11/05 |
| **Matrix:** | AQ - Trip Blank Soil | **Date Received:** | 10/13/05 |
| **Method:** | SW846 8260B | **Percent Solids:** | n/a |
| **Project:** | HOLMN | | |

**VOA Special List**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| 95-63-6 | 1,2,4-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 108-67-8 | 1,3,5-Trimethylbenzene | ND | 2.0 | 1.0 | ug/l | |
| 127-18-4 | Tetrachloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 108-88-3 | Toluene | ND | 1.0 | 0.50 | ug/l | |
| 79-01-6 | Trichloroethylene | ND | 1.0 | 0.50 | ug/l | |
| 75-69-4 | Trichlorofluoromethane | ND | 2.0 | 0.50 | ug/l | |
| 110-57-6 | Trans-1,4-Dichloro-2-Butene | ND | 10 | 5.0 | ug/l | |
| 75-01-4 | Vinyl chloride | ND | 1.0 | 0.50 | ug/l | |
| 108-05-4 | Vinyl Acetate | ND | 10 | 5.0 | ug/l | |
| | m,p-Xylene | ND | 2.0 | 0.50 | ug/l | |
| 95-47-6 | o-Xylene | ND | 1.0 | 0.50 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 108% | | 86-115% |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 121% | | 73-126% |
| 2037-26-5 | Toluene-D8 | 98% | | 86-112% |
| 460-00-4 | 4-Bromofluorobenzene | 117% | | 83-119% |

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

F35686

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 1 of 3

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]: 101220051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Gernaann

| | Field Sample ID (30 Characters Max) | BRPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [6] | Sample Number [5] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WPOL-SB16-4,9 | WPOL | 11-Oct-05 | 8:00 | 4" | 9" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 2 | WPOL-SB16-32,37 | WPOL | 11-Oct-05 | 8:00 | 32" | 37" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 3 | WPOL-SB16-58-67 | WPOL | 11-Oct-05 | 8:00 | 58" | 67" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 4 | WPOL-SB17-4,11 | WPOL | 11-Oct-05 | 9:00 | 4" | 11" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 5 | WPOL-SB17-31,38 | WPOL | 11-Oct-05 | 9:00 | 31" | 38" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 6 | WPOL-SB17-60,67 | WPOL | 11-Oct-05 | 9:00 | 60" | 67" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 7 | WPOL-SB17FD-4,11 | WPOL | 11-Oct-05 | 9:00 | 4" | 11" | FD | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 8 | WPOL-SB17FD-31,38 | WPOL | 11-Oct-05 | 9:00 | 31" | 38" | FD | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 9 | WPOL-SB17FD-60,67 | WPOL | 11-Oct-05 | 9:00 | 60" | 67" | FD | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |
| 10 | WPOL-SD18-4,10 | WPOL | 11-Oct-05 | 10:00 | 4" | 10" | N | 1 | SO | 2 | X | X | X | | | | | | Investigative Soil Boring | 1 |

Sample Analysis Requested [3]

Quality Assurance Samples [6]

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148**

**Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, keving@zianet.com**

Custody Transfers Prior to Receipt by Laboratory

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/12/2005 | @ 1600 | 1. FX | | |
| 2. | FX | | | 2. [signature] Brown | 10-13-05 | 9:00 |
| 3. | | | | 3. | | |

Sample Delivery Details / Laboratory Receipt

| | | | |
|---|---|---|---|
| Delivered Directly to Lab: | | Shipped No.: | |
| Method of Shipment: | Fed Ex | Airbill Number: | 853076390706 |
| Analytical Lab: | Accutest | Delivery Location: | Orlando, FL |
| Lab Recipient: | | Delivery Date/Time: | |

3.0

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-t) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

4.1

4

**F35686: Chain of Custody**

**Page 1 of 4**

F35686

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 2of 3

Project Number: 9040238.11

P.0. NA

Chain of Custody Number [1]:101220051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

| | Field Sample ID (30 Character Max) | BRFIMS LOCID (15 Character Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [5] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | |
| 11 | WPOL-SB18-31,38 | WPOL | 11-Oct-05 | 10:00 | 31" | 38" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 12 | WPOL-SB18-61,68 | WPOL | 11-Oct-05 | 10:00 | 61" | 68" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 13 | WPOL-SB19-4,12 | WPOL | 11-Oct-05 | 11:00 | 4" | 12" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 14 | WPOL-SB19-29,41 | WPOL | 11-Oct-05 | 11:00 | 29" | 41" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 15 | WPOL-SB19-56,72 | WPOL | 11-Oct-05 | 11:00 | 56" | 72" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 16 | WPOL-SB19FD-4,12 | WPOL | 11-Oct-05 | 11:00 | 4" | 12" | FD | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 17 | WPOL-SB19FD-29,41 | WPOL | 11-Oct-05 | 11:00 | 29" | 41" | FD | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 18 | WPOL-SB19FD-56,72 | WPOL | 11-Oct-05 | 11:00 | 56" | 72" | FD | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 19 | WPOL-SB20-4,9 | WPOL | 11-Oct-05 | 12:00 | 4" | 9" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |
| 20 | WPOL-SB20-30,39 | WPOL | 11-Oct-05 | 12:00 | 30" | 39" | N | 1 | SO | 2 | 12 | 12 | 12 | | | | | | Investigative Soil Boring | 1 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, FL 32811**
**Fax analytical results to: 505-679-2148** **Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, kevlng@zianet.com**

**Custody Transfers Prior to Receipt by Laboratory**

| Relinquished By (Signed) | Date | Time | Received by (Signed) | Date | Time |
|---|---|---|---|---|---|
| 1. [signature] | 10/12/2005 @ 1600 | | 1. FX | | |
| 2. FX | | | 2. [signature] | 10-13-05 | 1400 |
| 3. | | | 3. | | |

**Sample Delivery Details / Laboratory Receipt**

| | | | |
|---|---|---|---|
| Delivered Directly to Lab. | | Shipped No.. | |
| Method of Shipment: | Fed Ex | Airbill Number: | 883076390706 |
| Analytical Lab: | Accutest | Delivery Location: | Orlando, FL |
| Lab Recipient: | | Delivery Date/Time: | |

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank ( c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, ER = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WQ = Groundwater, WS = Surface Water, SO = Soil, SB = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Loc Control

4.1

4

**F35686: Chain of Custody**
**Page 2 of 4**

F35686

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 3 of 3

Project Number: 9040238.11

P.O. NA

Chain of Custody Number [1]: 101220051

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: K. Germann

| | Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [5] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | Quality Assurance Samples [6] | |
| 21 | WPOL-SB20-62,70 | WPOL | 11-Oct-05 | 12:00 | 62" | 70" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 22 | WPOL-SB21-7,12 | WPOL | 11-Oct-05 | 14:00 | 7" | 12" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 23 | WPOL-SB21-32,37 | WPOL | 11-Oct-05 | 14:00 | 32" | 37" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 24 | WPOL-SB21-62,69 | WPOL | 11-Oct-05 | 14:00 | 62" | 69" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 25 | WPOL-SB21FD-7,12 | WPOL | 11-Oct-05 | 14:00 | 7" | 12" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 26 | WPOL-SB21FD-32,37 | WPOL | 11-Oct-05 | 14:00 | 32" | 37" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 27 | WPOL-SB21FD-62,69 | WPOL | 11-Oct-05 | 14:00 | 62" | 69" | N | 1 | SO | 2 | [1] | [1] | [1] | | | | | | Investigative Soil Boring | 1 |
| 28 | Trip Blank | | | | | | TB | | | 2 | [1] | | | | | | | | Trip Blank | 1 |

**Accutest Laboratories**
**4405 Vineland Road suite C-15**
**Orlando, Fl, 32811**
**Fax analytical results to: 505-679-2148** **Email results to: rrenvironmental@zianet.com, dmeder@bhate.com, mdauben@bhate.com, keving@zianet.com**

**Custody Transfers Prior to Receipt by Laboratory**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/12/2005 @ 1600 | | [signature] | | |
| 2. | Fx | | | [signature] | 10-13-05 | 9:00 |
| 3. | | | | | | |

**Sample Delivery Details / Laboratory Receipt**

Delivered Directly to Lab: Shipped No.:

Method of Shipment: Fed Ex Airbill Number: 853076390706

Analytical Lab: Accutest Delivery Location: Orlando, FL

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TR = Trip Blank (-4) Sample, FD = Field Duplicate (-b) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SS = Sediment, SL = Sludge, BS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank 1 of Control

4.1

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**F35686: Chain of Custody**
**Page 3 of 4**

# ACCUTEST LABORATORIES SAMPLE RECEIPT CONFIRMATION

ACCUTEST'S JOB NUMBER: F35686 CLIENT: BHate PROJECT: West Pol

DATE/TIME RECEIVED: 10-13-05/ 7:00 # OF COOLERS RECEIVED: 1 COOLER TEMPS: 3.0

METHOD OF DELIVERY: (FEDEX) UPS ACCUTEST COURIER GREYHOUND DELIVERY OTHER

AIRBILL NUMBERS: 8530-7639-0706

## COOLER INFORMATION

- [ ] CUSTODY SEAL NOT PRESENT OR NOT INTACT
- [ ] NO COC RECEIVED
- [ ] ANALYSIS REQUESTED IS UNCLEAR OR MISSING
- [ ] SAMPLE DATES OR TIMES UNCLEAR OR MISSING
- [ ] TEMPERATURE CRITERIA NOT MET

## TRIP BLANK INFORMATION

- [ ] TRIP BLANK NOT PROVIDED
- [ ] TRIP BLANK NOT ON COC
- [x] TRIP BLANK INTACT
- [ ] TRIP BLANK NOT INTACT
- [x] RECEIVED WATER TRIP BLANK
- [ ] RECEIVED SOIL TRIP BLANK

## SAMPLE INFORMATION

- [ ] SAMPLE LABELS PRESENT ON ALL BOTTLES
- [ ] CORRECT NUMBER OF CONTAINERS USED
- [ ] SAMPLE RECEIVED IMPROPERLY PRESERVED
- [ ] INSUFFICIENT VOLUME FOR ANALYSIS
- [ ] TIMES ON COC DON'T MATCH LABEL
- [ ] ID'S ON COC DON'T MATCH LABEL
- [ ] VOC VIALS HAVE HEADSPACE (MACRO BUBBLES)
- [ ] BOTTLES RECEIVED BUT ANALYSIS NOT REQUESTED
- [ ] NO BOTTLES RECEIVED FOR ANALYSIS REQUESTED
- [ ] UNCLEAR FILTERING INSTRUCTIONS
- [ ] UNCLEAR COMPOSITING INSTRUCTIONS
- [ ] SAMPLE(S) RECEIVED BROKEN
- [ ] % SOLIDS JAR NOT RECEIVED

## SOIL INFORMATION

NUMBER OF ENCORES ? Ø

NUMBER OF 5035 FIELD KITS ? Ø

SUMMARY OF COMMENTS: Recieved water t.B. with soils.

TECHNICIAN SIGNATURE/DATE _____ TECHNICIAN SIGNATURE/DATE _____

ASBD06/22/05

4.1

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F35686: Chain of Custody
Page 4 of 4

# APPENDIX B

# SOIL BORING LOGS AND MONITORING WELL CONSTRUCTION DIAGRAMS

# Soil Boring Logs

# HTW DRILLING LOG

HOLE NO. WPOL-MW Ø1

| | |
|---|---|
| 1. COMPANY NAME: Bhate Environmental Associates, Inc. | 2. DRILLING CONTRACTOR: ESN |
| SHEET 1 OF SHEETS | |
| 3. PROJECT: Holloman Air Force Base - West POL Yard | 4. LOCATION: Holloman Air Force Base, New Mexico |
| 5. NAME OF DRILLER: Chad Grubbs | 6. MANUFACTURER'S DESIGNATION OF DRILL: Power Probe 9600 Pro |
| 7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: 3.25" OD Rods-5' 2.5" OD Teflon Liners -5' | 8. HOLE LOCATION: North East TBD |
| | 9. SURFACE ELEVATION (ft. NGVD): TBD |
| | 10. DATE STARTED: 16-APR-2007 / 11. DATE COMPLETED: 16-APR-2007 / 17-APR-2007 for well completion tops |
| 12. OVERBURDEN THICKNESS: NA | 15. DEPTH GROUNDWATER ENCOUNTERED: 1' BGS |
| 13. DEPTH DRILLED INTO ROCK: NA | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: TBD when sample |
| 14. TOTAL DEPTH OF HOLE: 12.5 | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): |

| 18. GEOTECHNICAL SAMPLES | DISTURBED | UNDISTURBED | 19. TOTAL NUMBER OF CORE BOXES |
|---|---|---|---|
| WPOL-DPØ1-5 | | X | 3 (W) 4 |

| 20. SAMPLES FOR CHEMICAL ANALYSIS | VOC | METALS | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | 21. TOTAL CORE REC % |
|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | | 100 |

| 22. DISPOSITION OF HOLE | BACKFILLED | MONITORING WELL | OTHER (SPECIFY) | 23. SIGNATURE OF INSPECTOR |
|---|---|---|---|---|
| WPOL-MWØ1 | | X | | [signature] |

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 0 | Sent sample for Geotech | | (1) WPOL-DPØ1-5 (1515) | | | |
| | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW Ø1

PROJECT: Holloman Air Force Base - West POL Yard

INSPECTOR: Katherine Thompson

SHEET 2 OF 2 SHEETS

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 6<br>7<br>8<br>9 | SILTY SAND, VERY PALE BROWN (10YR 7/3), WET TO SATURATED, Subrounded sands, very fine-grained, Soft, ~~MASSIVE~~ (K) Weak, massive, NOT MEASURED, MODERATE REACTION, loose, non-plastic to slightly plastic [SM] | NA wet sample | 2 | NA | NA | |
| | 10 | | | new box | | | |
| | 11 | SAME AS ABOVE | NA wet sample | 3 | NA | NA | |
| | (R) | | | | | | |
| | 12 | SILT (W/ MICA, CLAY, ~~CALCIUM CARBONATES~~), YELLOWISH | | W/some sands - very fine-grained | | | |
| | | | END OF BOREHOLE | | | | |
| | 13 | RED (5YR 4/6), DRY, very fine grained sands subangular, medium stiff to stiff, weak cementation, massive, medium dense to dense, non-plastic to slightly plastic [ML] (NOT MEASURED = Dry Strength) | | | | | NOTE: DILATANCY: MODERATE TO NO REACTION |

# HTW DRILLING LOG

HOLE NO. WPOL-MW Ø2

| | |
|---|---|
| 1. COMPANY NAME: Bhate Environmental Associates, Inc. | 2. DRILLING CONTRACTOR: ESN |
| SHEET 1 OF SHEETS | |
| 3. PROJECT: Holloman Air Force Base - West POL Yard | 4. LOCATION: Holloman Air Force Base, New Mexico |
| 5. NAME OF DRILLER: Chad Grubbs | 6. MANUFACTURER'S DESIGNATION OF DRILL: POWER PROBE 9600 PRO |
| 7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: 3.25" OD RODS - 5'; 2.5" OD TEFLON LINERS - 5' | 8. HOLE LOCATION: North East TBD |
| | 9. SURFACE ELEVATION (ft. NGVD): TBD |
| | 10. DATE STARTED: 16-APR-2007 |
| | 11. DATE COMPLETED: 16-APR-2007 / TOP COMPLETE 17-APR-2007 |
| 12. OVERBURDEN THICKNESS: ~~NA~~ 19" FILL MATERIAL | 15. DEPTH GROUNDWATER ENCOUNTERED: (A) ~~Ø.5'~~ BGS 5' BGS |
| 13. DEPTH DRILLED INTO ROCK: NA | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: TBD when sample |
| 14. TOTAL DEPTH OF HOLE: 12.5' BGS | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): |

| 18. GEOTECHNICAL SAMPLES | DISTURBED | UNDISTURBED | 19. TOTAL NUMBER OF CORE BOXES |
|---|---|---|---|
| NA | | | 3 |

| 20. SAMPLES FOR CHEMICAL ANALYSIS | VOC | METALS | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | 21. TOTAL CORE REC % |
|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | | |

| 22. DISPOSITION OF HOLE | BACKFILLED | MONITORING WELL | OTHER (SPECIFY) | 23. SIGNATURE OF INSPECTOR |
|---|---|---|---|---|
| WPOL-MW Ø2 | | X | | [signature] |

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 0 | FILL MATERIAL 19" | NA | 1 | NA | NA | |
| | 1 | | | | | | |
| | 2 | SILTY SAND (w/clay), Brown (7.5YR 5/3), Dry, SOFT, subangular fine grained sands, weak, massive, dry strength not measured, moderate, reaction to no reaction, loose, non-plastic [SM] | P. 2.6 F. 1.3 | 1 | NA | NA | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW Ø2

PROJECT: Holloman Air Force Base - West POL Yard

INSPECTOR: Kathunn Thompson

SHEET 2 OF 2 SHEETS

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 6<br>7 | Sandy Silt, Very Pale brown (10YR 7/3), MOIST, subangular sands-very fine grained. nearly 50%, Very Soft to Soft, weak, massive, dry strength not measured, moderate reaction, loose, non-plastic, [ML] nearly SM | NA wet Sample | 2 | NA | NA | |
| | 8<br>9<br>10 | Silty Sand (w/Clay), Light GRAY (2.5YR 7/2), SATURATED, subangular sands-very fine grained, Medium Stiff, weak, massive, dry strength NM, moderate reaction, medium dense to loose, slightly plastic, nodules of oxidation, [SM] | NA wet | 3 | | | |
| | 11<br>12 | Same as above | NA wet | 4 | NA | NA | |
| | | SILT (w/mica, calcium carbonates, Clay), Yellowish Red (5YR 4/6) Dry, very fine grained sands-<10%, medium stiff to stiff, weak, massive, medium dense, nonplastic to slighly plastic, [ML] | | 4 | | | |
| | 13 | END OF BOREHOLE | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW 03

| | |
|---|---|
| 1. COMPANY NAME: Bhate Environmental Associates, Inc. | 2. DRILLING CONTRACTOR: ESN |
| SHEET 1 OF 2 SHEETS | |
| 3. PROJECT: Holloman Air Force Base - West POL Yard | 4. LOCATION: Holloman Air Force Base, New Mexico |
| 5. NAME OF DRILLER: Chad Grubbs | 6. MANUFACTURER'S DESIGNATION OF DRILL: POWER PROBE 9600 PRO |
| 7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: 3.25" OD Rods 5'; 2.5" OD TEFLON LINERS 5' | 8. HOLE LOCATION: North East TBD |
| | 9. SURFACE ELEVATION (ft. NGVD): TBD |
| | 10. DATE STARTED: 16-APR-2007 |
| | 11. DATE COMPLETED: 16 APR-2007 / 17-APR-2007 |
| 12. OVERBURDEN THICKNESS: 5' - FILL | 15. DEPTH GROUNDWATER ENCOUNTERED: ~~TBD when sample~~ KO 5' |
| 13. DEPTH DRILLED INTO ROCK: NA | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: TBD when sample |
| 14. TOTAL DEPTH OF HOLE: 12' | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): |

| 18. GEOTECHNICAL SAMPLES | DISTURBED | UNDISTURBED | 19. TOTAL NUMBER OF CORE BOXES |
|---|---|---|---|
| | | | 3 |

| 20. SAMPLES FOR CHEMICAL ANALYSIS | VOC | METALS | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | 21. TOTAL CORE REC % |
|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | | |

| 22. DISPOSITION OF HOLE | BACKFILLED | MONITORING WELL | OTHER (SPECIFY) | 23. SIGNATURE OF INSPECTOR |
|---|---|---|---|---|
| WPOL-MW03 | | X | | [signature] |

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 0 | ALL FILL MATERIAL w 3' RECOVERY | NA | 1 | NA | NA | |
| | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW 03

PROJECT: Holloman Air Force Base - West POL Yard

INSPECTOR:

SHEET 2 OF 2 SHEETS

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | | 2.5' Recovery Only P:710,000 SILTY SAND, GRAY (10YR F5.4 6/1) SATURATED, SUBROUNDED | | 2 | NA | NA | |
| | 6 | sands, very fine-grained sands, soft to medium stiff, | | | | | |
| | 7 | weak, massive, dry strength not measured, moderate reaction, loose, non-plastic, SM | | | | | |
| | 8 | Strong petroleum odor! | | | | | |
| | 9 | | | | | | |
| | 10 | SILT, to light brownish gray (10YR 6/2), MOIST, NA, medium stiff, weak, | | | | | |
| | 11 | massive, dry strength NM, no reaction, loose, non-plastic to slightly plastic, ML | | | | | |
| | 12 | Stiff bottom prob hit caliche. | End of Borehole | | | | |
| | 13 | | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW Ø4

| | |
|---|---|
| 1. COMPANY NAME: Bhate Environmental Associates, Inc. | 2. DRILLING CONTRACTOR: ESN |
| SHEET 1 OF SHEETS | |
| 3. PROJECT: Holloman Air Force Base - West POL Yard | 4. LOCATION: Holloman Air Force Base, New Mexico |
| 5. NAME OF DRILLER: Chad Grubbs | 6. MANUFACTURER'S DESIGNATION OF DRILL: POWER PROBE 9600 PRO |
| 7. SIZES & TYPES OF DRILLING & SAMPLING EQUIPMENT: 3.25" OD Rods 5' 2.5" OD TEFLON LINERS - 5' | 8. HOLE LOCATION: North East TBD |
| | 9. SURFACE ELEVATION (ft. NGVD): TBD |
| | 10. DATE STARTED: 16-APR-2007 / 11. DATE COMPLETED: 16-APR-2007 / 17APR 2007 well comp |
| 12. OVERBURDEN THICKNESS: NA | 15. DEPTH GROUNDWATER ENCOUNTERED: 5' |
| 13. DEPTH DRILLED INTO ROCK: NA | 16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING COMPLETED: TBD when sample |
| 14. TOTAL DEPTH OF HOLE: ~~10.5~~ 11 ft BGS | 17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): |

| 18. GEOTECHNICAL SAMPLES | DISTURBED | UNDISTURBED | 19. TOTAL NUMBER OF CORE BOXES |
|---|---|---|---|
| WPOL-DPØ4-5 | | X | 3 |

| 20. SAMPLES FOR CHEMICAL ANALYSIS | VOC | METALS | OTHER (SPECIFY) | OTHER (SPECIFY) | OTHER (SPECIFY) | 21. TOTAL CORE REC % |
|---|---|---|---|---|---|---|
| NA | NA | NA | NA | NA | | |

| 22. DISPOSITION OF HOLE | BACKFILLED | MONITORING WELL | OTHER (SPECIFY) | 23. SIGNATURE OF INSPECTOR |
|---|---|---|---|---|
| WPOL-MWØ4 | | X | | |

| ELEV a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 0 | Sent sample for geotech. | W | (1) WPOL-DPØ4-5 1425 | | | |
| | 1 | | | | | | |
| | 2 | | | | | | |
| | 3 | | | | | | |
| | 4 | | | | | | |
| | 5 | | | | | | |

# HTW DRILLING LOG

HOLE NO. WPOL-MW

PROJECT: Holloman Air Force Base - West POL Yard

INSPECTOR:

SHEET OF SHEETS

| ELEV. a | DEPTH b | DESCRIPTION OF MATERIALS c | Field Screening Results d | Geotech Sample or Core Box No. e | Analytical Sample No. f | Blow Counts g | REMARKS h |
|---|---|---|---|---|---|---|---|
| | 6<br>7 | SILT, light yellowish brown (10YR 6/4), saturated, soft, weak, massive, dry strength not measured, moderate to no reaction, loose, non-plastic [ML] | NA wet | 2 | NA | NA | |
| | 8<br>9<br>10<br>11 | Same as above w/ increased sand content ~ 40%, [ML/SM]<br>SILT (w/mica, clay, calcium carbonates), yellowish red (5YR 4/6), Dry, medium stiff to stiff, weak, massive, dense to medium dense, non plastic | | | | | |
| | 12 | END OF BORE HOLE | | | | | |

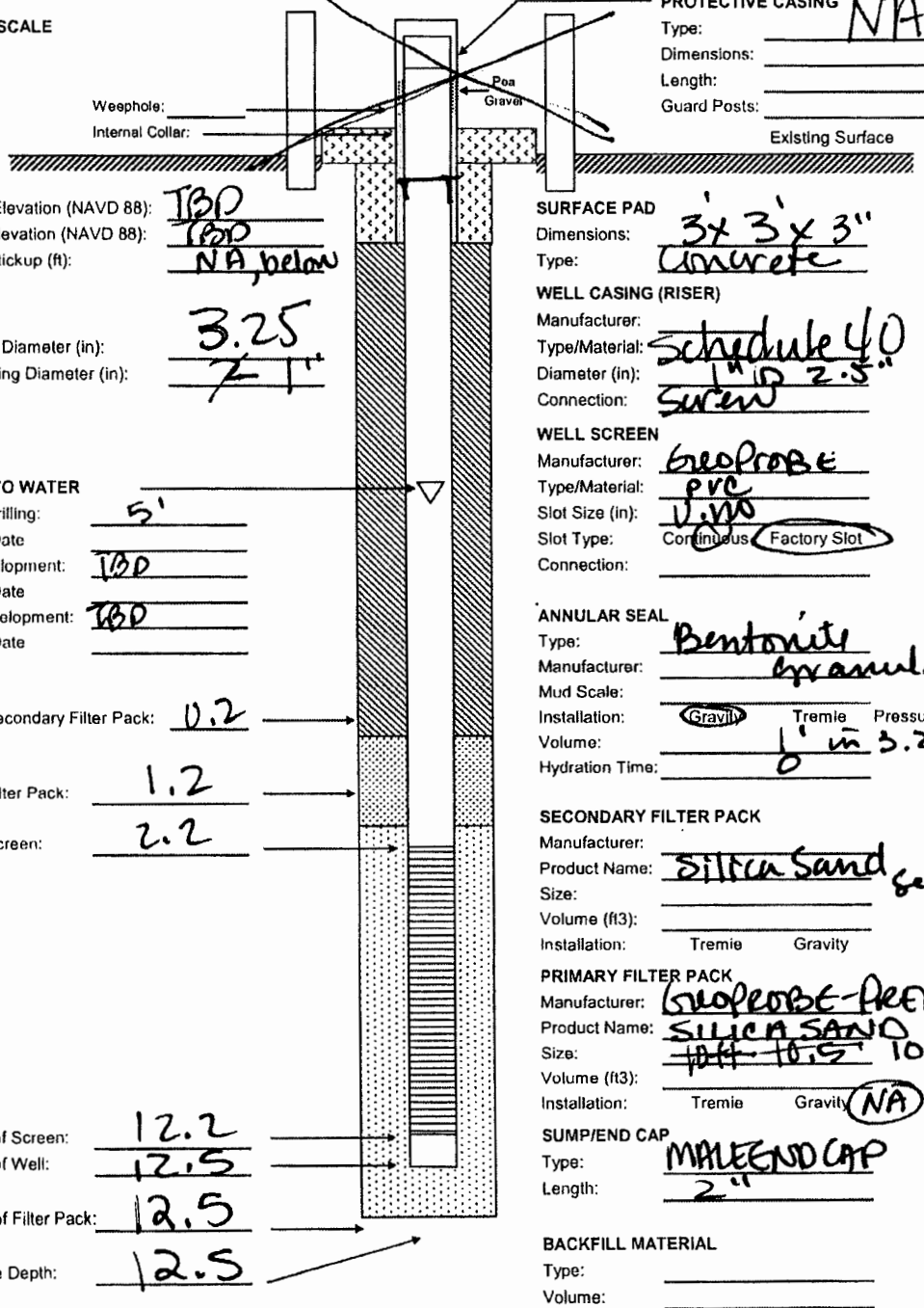
# Monitoring Well Construction Diagrams

BHATE
*Environmental Engineers and Scientists*

# WELL CONSTRUCTION DIAGRAM (Abovegrade)

| | | | |
|---|---|---|---|
| **SITE:** | West POL Yard | **WELL/BORING ID:** | WPOL-MW01 |
| **PROJECT NAME:** | HAFB-Groundwater Monitoring | **DRILLING METHOD:** | Direct Push Technology |
| **PROJECT NO./PHASE:** | 9040238 11.01 | **DATE(S):** | 16 APR-2007 |
| **DRILLING CONTRACTOR:** | ESN | **SURVEYOR:** | TBD |
| **DRILLER:** | Chad Grubbs | **NORTHING (NAD 83):** | TBD |
| **GEOLOGIST:** | Katherine Thompson | **EASTING (NAD 83):** | TBD |

**NOT TO SCALE**




Weephole:
Internal Collar:

**PROTECTIVE CASING**
Type: NA - below grade
Dimensions:
Length:
Guard Posts:

Surface Elevation (NAVD 88): TBD
Casing Elevation (NAVD 88): TBD
Casing Stickup (ft): NA, below

Borehole Diameter (in): 3.25
Well Casing Diameter (in): 1"

**DEPTH TO WATER**
During Drilling: 5'
Date
Pre Development: TBD
Date
Post Development: TBD
Date

Top of Secondary Filter Pack: 0.2
Top of Filter Pack: 1.2
Top of Screen: 2.2
Bottom of Screen: 12.2
Bottom of Well: 12.5
Bottom of Filter Pack: 12.5
Borehole Depth: 12.5

**SURFACE PAD**
Dimensions: 3' x 3' x 3"
Type: Concrete

**WELL CASING (RISER)**
Manufacturer:
Type/Material: Schedule 40
Diameter (in): 1" ID 2.5"
Connection: Screw

**WELL SCREEN**
Manufacturer: GeoProbe
Type/Material: PVC
Slot Size (in): 0.010
Slot Type: Continuous (Factory Slot)
Connection:

**ANNULAR SEAL**
Type: Bentonite
Manufacturer: Granular
Mud Scale:
Installation: (Gravity) Tremie Pressure
Volume: 1' in 3.25" hole
Hydration Time: 0

**SECONDARY FILTER PACK**
Manufacturer:
Product Name: Silica Sand see below
Size:
Volume (ft3):
Installation: Tremie Gravity

**PRIMARY FILTER PACK**
Manufacturer: GeoProbe-PrePack
Product Name: SILICA SAND
Size: ~~10 ft - 10.5'~~ 10' along screen
Volume (ft3):
Installation: Tremie Gravity (NA)

**SUMP/END CAP**
Type: MALE END CAP
Length: 2"

**BACKFILL MATERIAL**
Type:
Volume:

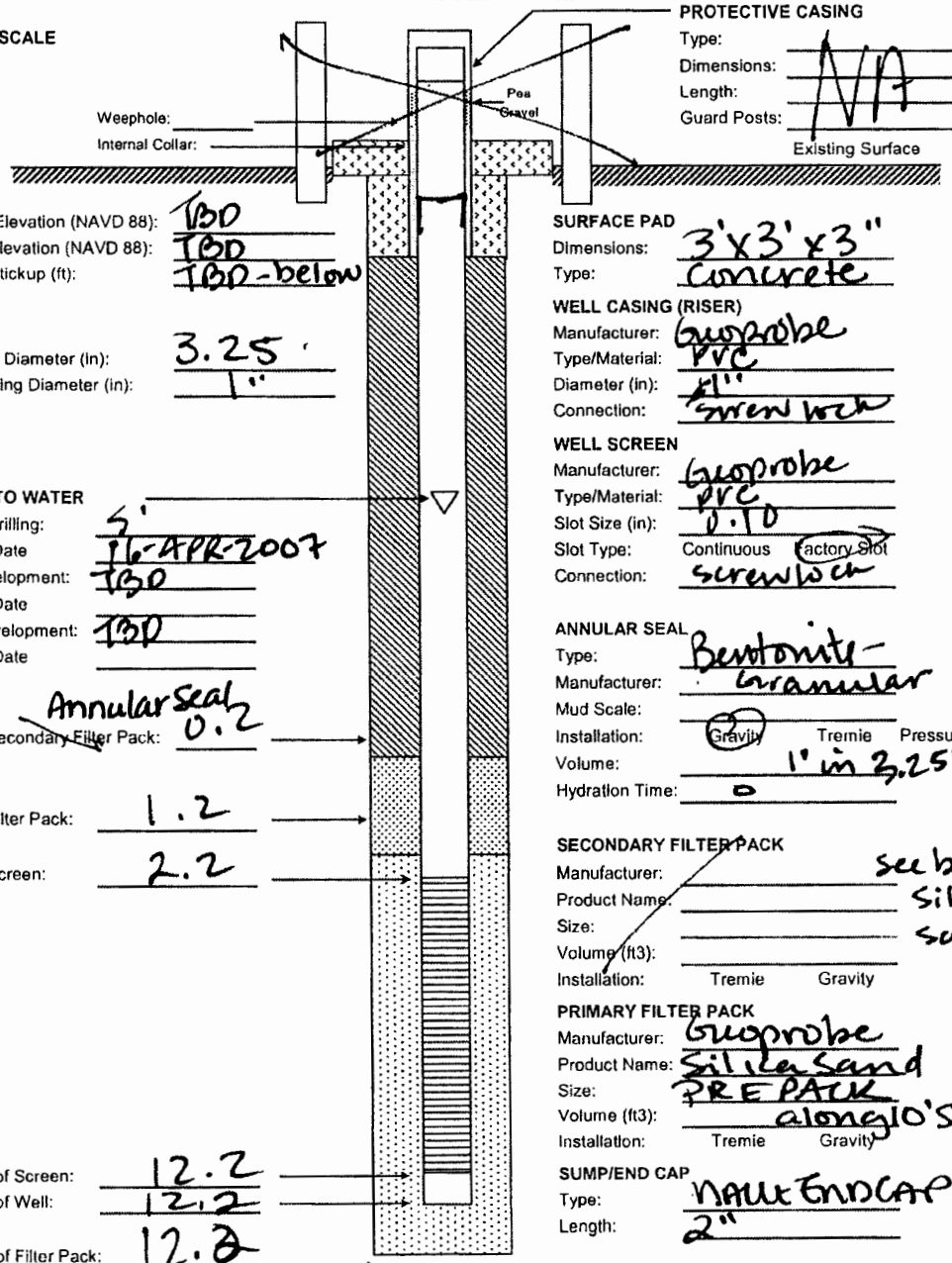
**Comments:**

**SHAW**
*Environmental Engineers and Scientists*

# WELL CONSTRUCTION DIAGRAM (Abovegrade)

| | | | |
|---|---|---|---|
| **SITE:** | West POL Yard | **WELL/BORING ID:** | WPOL-MW02 |
| **PROJECT NAME:** | HAFB-Groundwater Monitoring | **DRILLING METHOD:** | Direct Push Technology |
| **PROJECT NO./PHASE:** | 9040238 11.01 | **DATE(S):** | 16-APR-2007 |
| **DRILLING CONTRACTOR:** | ESN | **SURVEYOR:** | TBD |
| **DRILLER:** | Chad Grubbs | **NORTHING (NAD 83):** | TBD |
| **GEOLOGIST:** | Katherine Thompson | **EASTING (NAD 83):** | TBD |

**NOT TO SCALE**




**PROTECTIVE CASING**
Type:
Dimensions:
Length:
Guard Posts: NA

Weephole:
Internal Collar:

Surface Elevation (NAVD 88): TBD
Casing Elevation (NAVD 88): TBD
Casing Stickup (ft): TBD-below

Borehole Diameter (in): 3.25
Well Casing Diameter (in): 1"

**DEPTH TO WATER**
During Drilling: 5'
Date 16-APR-2007
Pre Development: TBD
Date
Post Development: TBD
Date

Top of ~~Secondary Filter Pack~~ Annular Seal: 0.2

Top of Filter Pack: 1.2

Top of Screen: 2.2

Bottom of Screen: 12.2
Bottom of Well: 12.2

Bottom of Filter Pack: 12.2

Borehole Depth: 12.5

**SURFACE PAD**
Dimensions: 3'x3'x3"
Type: Concrete

**WELL CASING (RISER)**
Manufacturer: Geoprobe
Type/Material: PVC
Diameter (in): 1"
Connection: screw lock

**WELL SCREEN**
Manufacturer: Geoprobe
Type/Material: PVC
Slot Size (in): 0.10
Slot Type: Continuous (Factory Slot)
Connection: screwlock

**ANNULAR SEAL**
Type: Bentonite-
Manufacturer: Granular
Mud Scale:
Installation: (Gravity) Tremie Pressure
Volume: 1' in 3.25" hole
Hydration Time: 0

**SECONDARY FILTER PACK**
Manufacturer: see below
Product Name: Silica
Size: sand
Volume (ft3):
Installation: Tremie Gravity

**PRIMARY FILTER PACK**
Manufacturer: Geoprobe
Product Name: Silica Sand
Size: PREPACK
Volume (ft3): along 10' Screen
Installation: Tremie Gravity

**SUMP/END CAP**
Type: NALL ENDCAP
Length: 2"

**BACKFILL MATERIAL**
Type: NA
Volume:

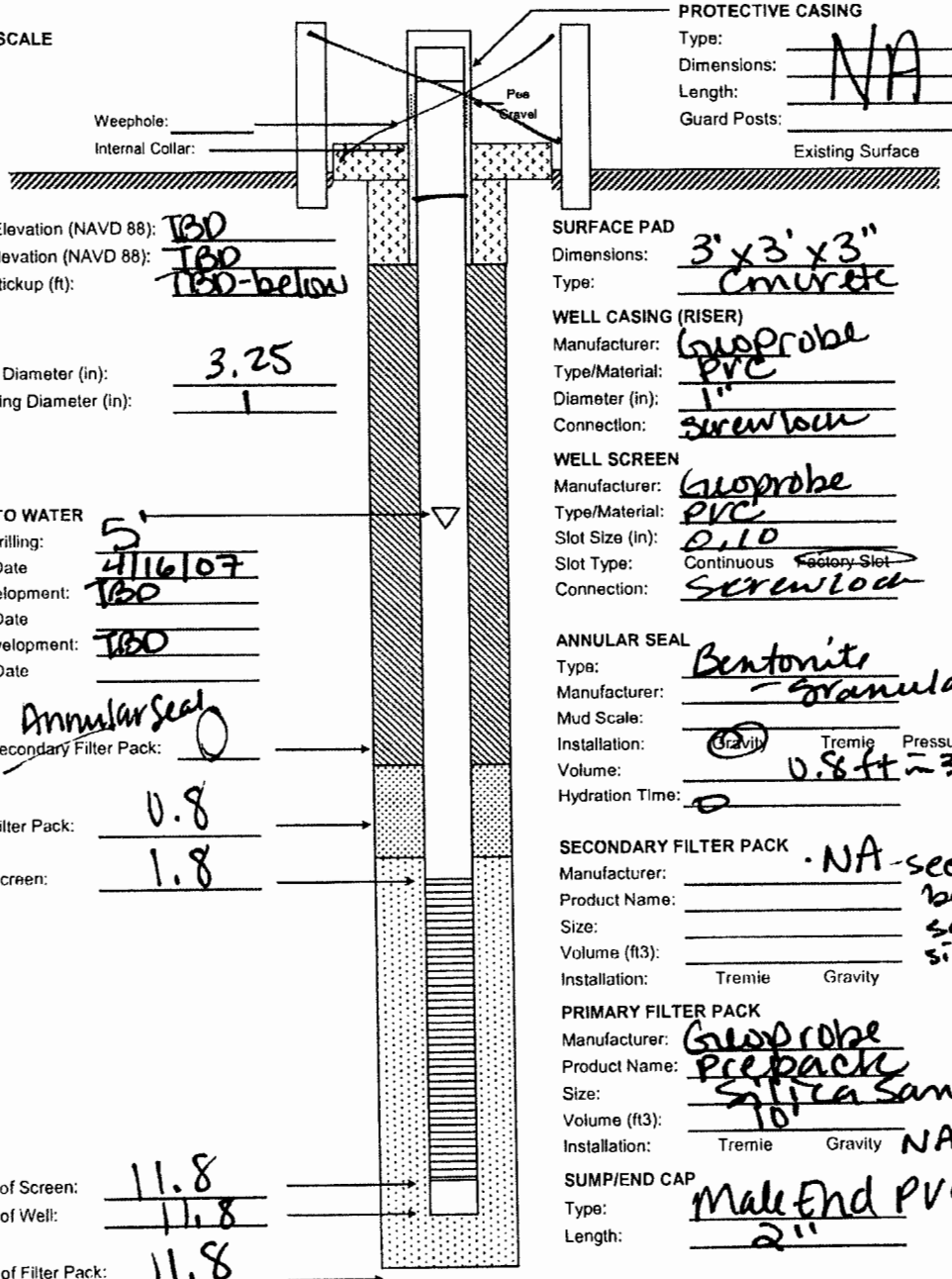
**Comments:**

**BHATE**
*Environmental Engineers and Scientists*

# WELL CONSTRUCTION DIAGRAM (Abovegrade)

| | | | |
|---|---|---|---|
| SITE: | West POL Yard | WELL/BORING ID: | WPOL-MW03 |
| PROJECT NAME: | HAFB-Groundwater Monitoring | DRILLING METHOD: | Direct Push Technology |
| PROJECT NO./PHASE: | 9040238 11.01 | DATE(S): | 16-APR-2007 |
| DRILLING CONTRACTOR: | ESN | SURVEYOR: | TBD |
| DRILLER: | Chad Grubbs | NORTHING (NAD 83): | TBD |
| GEOLOGIST: | Katherine Thompson | EASTING (NAD 83): | TBD |

NOT TO SCALE




Weephole:
Internal Collar:

Existing Surface

**PROTECTIVE CASING**
Type:
Dimensions: NA below
Length:
Guard Posts:

Surface Elevation (NAVD 88): TBD
Casing Elevation (NAVD 88): TBD
Casing Stickup (ft): TBD-below

Borehole Diameter (in): 3.25
Well Casing Diameter (in): 1

**DEPTH TO WATER**
During Drilling: 5'
Date 4/16/07
Pre Development: TBD
Date
Post Development: TBD
Date

Top of ~~Secondary Filter Pack~~ Annular Seal: 0

Top of Filter Pack: 0.8

Top of Screen: 1.8

Bottom of Screen: 11.8
Bottom of Well: 11.8

Bottom of Filter Pack: 11.8

Borehole Depth: 12

**SURFACE PAD**
Dimensions: 3'x3'x3"
Type: Concrete

**WELL CASING (RISER)**
Manufacturer: Geoprobe
Type/Material: PVC
Diameter (in): 1"
Connection: screwlock

**WELL SCREEN**
Manufacturer: Geoprobe
Type/Material: PVC
Slot Size (in): 0.10
Slot Type: Continuous ~~Factory Slot~~
Connection: Screwlock

**ANNULAR SEAL**
Type: Bentonite
Manufacturer: - Granular
Mud Scale:
Installation: (Gravity) Tremie Pressure
Volume: 0.8 ft ≈ 3.25" hole
Hydration Time: 0

**SECONDARY FILTER PACK** · NA - see below sand silica
Manufacturer:
Product Name:
Size:
Volume (ft3):
Installation: Tremie Gravity

**PRIMARY FILTER PACK**
Manufacturer: Geoprobe
Product Name: Prepack
Size: Silica Sand
Volume (ft3): 10'
Installation: Tremie Gravity NA

**SUMP/END CAP**
Type: Male End PVC
Length: 2"

**BACKFILL MATERIAL**
Type:
Volume:

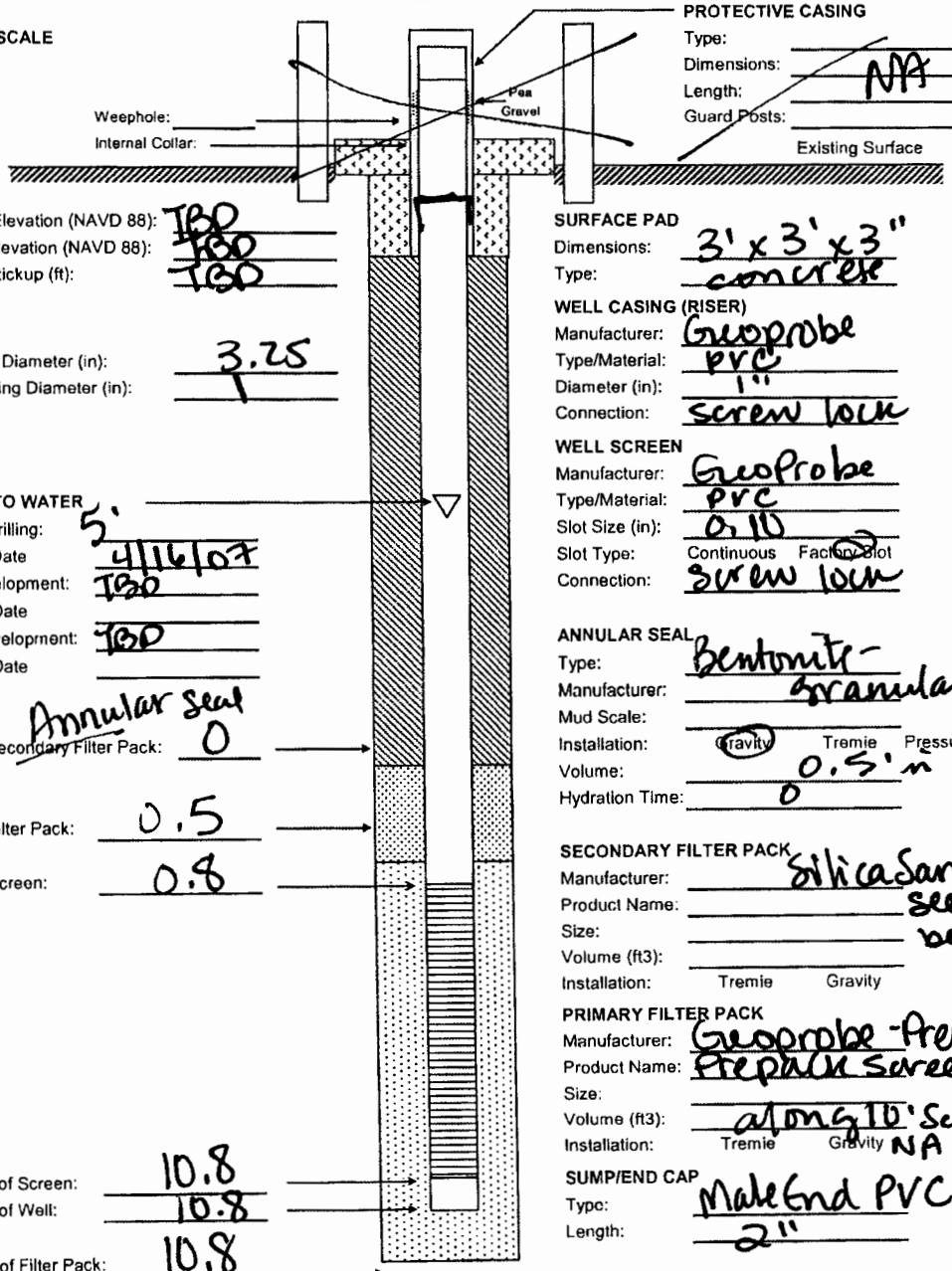
**Comments:**

BHATE
*Environmental Engineers and Scientists*

# WELL CONSTRUCTION DIAGRAM (Abovegrade)

| | | | |
|---|---|---|---|
| **SITE:** | West POL Yard | **WELL/BORING ID:** | WPOL-MW04 |
| **PROJECT NAME:** | HAFB-Groundwater Monitoring | **DRILLING METHOD:** | Direct Push Technology |
| **PROJECT NO./PHASE:** | 9040238 11.01 | **DATE(S):** | 16-APR 2007 |
| **DRILLING CONTRACTOR:** | ESN | **SURVEYOR:** | TBD |
| **DRILLER:** | Chad Grubbs | **NORTHING (NAD 83):** | TBD |
| **GEOLOGIST:** | Katherine Thompson | **EASTING (NAD 83):** | TBD |

NOT TO SCALE




**PROTECTIVE CASING**
Type:
Dimensions:
Length: NA
Guard Posts:

Surface Elevation (NAVD 88): TBD
Casing Elevation (NAVD 88): TBD
Casing Stickup (ft): TBD

Borehole Diameter (in): 3.25
Well Casing Diameter (in): 1

**DEPTH TO WATER**
During Drilling: 5'
Date 4/16/07
Pre Development: TBD
Date
Post Development: TBD
Date

Top of Secondary Filter Pack: Annular Seal 0

Top of Filter Pack: 0.5

Top of Screen: 0.8

Bottom of Screen: 10.8
Bottom of Well: 10.8

Bottom of Filter Pack: 10.8

Borehole Depth: 11

**SURFACE PAD**
Dimensions: 3' x 3' x 3"
Type: concrete

**WELL CASING (RISER)**
Manufacturer: Geoprobe
Type/Material: PVC
Diameter (in): 1"
Connection: screw lock

**WELL SCREEN**
Manufacturer: GeoProbe
Type/Material: PVC
Slot Size (in): 0.10
Slot Type: Continuous Factory Slot
Connection: screw lock

**ANNULAR SEAL**
Type: Bentonite-
Manufacturer: granular
Mud Scale:
Installation: Gravity Tremie Pressure
Volume: 0.5' in 3.25" hole
Hydration Time: 0

**SECONDARY FILTER PACK**
Manufacturer: Silica Sand
Product Name: see
Size: below
Volume (ft3):
Installation: Tremie Gravity

**PRIMARY FILTER PACK**
Manufacturer: Geoprobe-Prepack
Product Name: Prepack Screen Silica
Size: along 10' Screen Sand
Volume (ft3):
Installation: Tremie Gravity NA

**SUMP/END CAP**
Type: Male End PVC
Length: 2"

**BACKFILL MATERIAL**
Type:
Volume:

**Comments:**

# APPENDIX C

# FIELD SAMPLING DOCUMENTATION

# Monitoring Well Development Logs

# MONITORING WELL DEVELOPMENT FORM

EBHATE
*Environmental Engineers and Scientist*



| | | | |
|---|---|---|---|
| **LOCATION** | Site: WPOL | Location ID: WPOL ~~MW~~ MW01 | Date: 4/18/07 |
| | Project Name: Groundwater Mon. WPOL | Project No./Phase: 9040238 11.01 | Recorded By: BW |
| **EQUIPMENT** | Pump Type/ID#: Geopump | Water Quality Meter/ID#: Horiba U22 / | PID Type/ID#: — |
| | Water Level Indicator Type/ID#: Heron | Other Equipment/ID#: Laptop / | Decon Method: Liquinox / DI Rinse |
| | Tubing Type/Diameter (in): 1/4 x 3/8 | Other Equipment/ID#: — | PPE Level: D C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): 6.40 | Casing: Type PVC Diam. (in) 2 | Weather: clear, breeze, 60° |
| | (B) Total Well Depth (ft BTOC): 12.21 | (E) Casing Volume Multiplier (gal/lin ft): 0.04 | Background PID (ppm): — |
| | (C) Water Column Thickness (ft) (B-A): 5.81 | Screen Length (lin ft): 5 | Breathing Zone PID (ppm): — |
| | (D) Well Volume (gal) (C x E): 0.25 | Screen Info: Type: Pre-pack Size: 1" | Well Opening PID (ppm): — |

| **CASING INFO** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mL) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/18/07 | 0900 | 6.40 | 0 | 250 | 20.1 | 7.68 | 137 | 10.57 | >990 | 105 | water is very turbid |
| | 0910 | — | 250 | ~~500~~ 250 | 20.3 | 7.42 | 130 | 10.11 | >990 | 45 | |
| | 0920 | — | 500 | 250 | 19.5 | 7.40 | 132 | 9.27 | 861 | 41 | cleaning, agitated tubing |
| | 0930 | — | 1000 | 500 | 19.7 | 7.39 | 130 | 9.04 | >990 | 44 | rinse out flow cell |
| | 0940 | — | 2000 | 500 | 19.7 | 7.40 | 130 | 9.00 | 68 | 40 | water very clear |
| | 0950 | — | 3000 | 500 | 19.5 | 7.39 | 132 | 9.03 | 47 | 41 | " |
| | 1000 | — | 4000 | 500 | 19.5 | 7.40 | 135 | 8.89 | 33 | 41 | |
| | | | | | | | | | | | |
| | TERMINATE | | DEVELOPMENT | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **DEVELOPMENT CRITERIA** | | | | | | | | | | | |
| +/- 10% unless otherwise noted | | | | | +/- 0.5 | +/- 0.1 | +/- 25 | +/- 0.2 | < 50.0 | +/- 20 | |

**COMMENTS:** 0950 TDS - 1086
1000 TDS - 2134

12.21
6.40
5.81

5.81
.04
2320
000

# MONITORING WELL DEVELOPMENT FORM

EBHATE
Environmental Engineers and Scientist



| | | | |
|---|---|---|---|
| LOCATION | Site: WPOL | Location ID: WPOL-MW02 | Date: 18-APR-2007 |
| | Project Name: Groundwater Mon. WPOL | Project No./Phase: 9040238 11.01 | Recorded By: K. THOMPSON |
| EQUIPMENT | Pump Type/ID#: MasterFlex | Water Quality Meter/ID#: YSI | PID Type/ID#: - NA - |
| | Water Level Indicator Type/ID#: HERON | Other Equipment/ID#: LA MOTTE 2020 | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" Poly | Other Equipment/ID#: - NA - | PPE Level: (D) C B A |
| WELL INFO | (A) Initial Depth to Water (ft BTOC): 6.38 | Casing: Type 1" PVC Diam. (in) 1 | Weather: Sunny Warm 72° |
| | (B) Total Well Depth (ft BTOC): 12.25 | (E) Casing Volume Multiplier (gal/lin ft): 0.04 | Background PID (ppm): |
| | (C) Water Column Thickness (ft) (B-A): 5.87 | Screen Length (lin ft): 10' | Breathing Zone PID (ppm): |
| | (D) Well Volume (gal) (C x E): 0.2348 gal | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): |

| CASING INFO | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mL) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 041807 | 0918 | 7.12 | 0 | 350 | 19.01 | 7.46 | 2.105 | 5.61 | too high | 108 | TDS 1.513 g/L - bottom |
| 041807 | 0928 | 7.70 | 35000 | 350 | 18.72 | 7.38 | 1.629 | 2.01 | 180 | 26.6 | TDS 1.204 g/L - move up 1' |
| 041807 | 0938 | 7.82 | 70000 | 350 | 18.77 | 7.25 | 1.531 | 1.21 | 50 | 46.4 | TDS 1.136 g/L - move up 1' |
| 041807 | 0948 | 7.87 | 105000 | 350 | 18.79 | 7.19 | 1.500 | 1.19 | 24 | 70.0 | TDS 1.103 g/L - move up 1' |
| 041807 | 0958 | 7.73 | 140000 | 350 | 18.91 | 7.17 | 1.557 | 1.23 | 12 | 80.6 | TDS 1.124 g/L - move up 1' |
| 041807 | 1008 | 7.21 | 175000 | 350 | 19.16 | 7.16 | 1.571 | 1.22 | 9.6 | 89.0 | TDS 1.973 g/L - move up 1' |
| 041807 | 1018 | 7.07 | 210000 | 350 | 19.25 | 7.16 | 1.555 | 1.35 | 2.9 | 90.6 | TDS 1.131 g/L - move up 1' |
| 041807 | 1028 | 7.05 | 245000 | 350 | 19.41 | 7.14 | 1.573 | 1.71 | 2.0 | 92.6 | TDS 1.142 g/L - move up 1' |
| 041807 | 1038 | 6.56 | 280000 | 350 | 19.97 | 7.22 | 1.716 | 5.29 | 3.2 | 124.9 | TDS 1.046 - move up 1' |
| 041807 | 1048 | 6.79 | 315000 (1 gal) | ~~350~~ 200 | 20.56 | 7.26 | 1.581 | 4.66 | 3.9 | 135. | TDS - 1.120 - move to 9.25' btoc |
| 041807 | 1058 | 6.77 | 335000 | 200 | 20.46 | 7.26 | 1.575 | 2.53 | 5.3 | 74.7 | TDS - 1.121 - Stay @ mid $H_2O$. |
| DEVELOPMENT CRITERIA | | | | | | | | | | | |
| +/- 10% unless otherwise noted | | | | | +/- 0.5 | +/- 0.1 | +/- 25 | +/- 0.2 | < 50.0 | +/- 20 | |

COMMENTS: moving up through screen as develop

$$\begin{array}{r} 5.87 \\ .04 \\ \hline 0.2348 \end{array}$$

Moved through screen to surge out sediment. Cleared up rapidly, recharges well.

# MONITORING WELL DEVELOPMENT FORM

EBHATE
*Environmental Engineers and Scientist*



| LOCATION | Site: WPOL | Location ID: WPOL-MW02 | Date: 18-APR-2007 |
|---|---|---|---|
| | Project Name: Groundwater Mon. WPOL | Project No./Phase: 9040238 11.01 | Recorded By: K. THOMPSON |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mL) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 041807 | 1108 | | 35500 | 200 | 20.81 | 7.21 | 1.562 | 1.55 | 1.7 | 84.4 | TDS:1.105 |
| 041807 | 1118 | | 37500 | 200 | 20.77 | 7.21 | 1.574 | 1.58 | 0.85 | 85.8 | TDS: 1.114 |
| 041807 | 1128 | | 39500 | — | 20.75 | 7.20 | 1.575 | 1.53 | 0.85 | 87.1 | TDS:1.114 |
| | 1128-END DEVELOPMENT | | | | | | | | | | |

Kathleen

# MONITORING WELL DEVELOPMENT FORM

EBHATE
Environmental Engineers and Scientist

Page 1 of 1

| | | | |
|---|---|---|---|
| **LOCATION** | Site: WPOL | Location ID: WPOL-MW03 | Date: 18-APR 2007 |
| | Project Name: Groundwater Mon. WPOL | Project No./Phase: 9040238 11.01 | Recorded By: K THOMPSON |
| **EQUIPMENT** | Pump Type/ID#: Master Flex | Water Quality Meter/ID#: YSI | PID Type/ID#: -NA- |
| | Water Level Indicator Type/ID#: Heron | Other Equipment/ID#: LA MOTTE 2020 | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" Poly | Other Equipment/ID#: -NA- | PPE Level: (D) C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): 6.70 | Casing: Type PVC Diam. (in) 1" | Weather: Sunny Warm - 85° |
| | (B) Total Well Depth (ft BTOC): 11.70 | (E) Casing Volume Multiplier (gal/lin ft): 0.04 | Background PID (ppm): -NA- |
| | (C) Water Column Thickness (ft) (B-A): 5.00 | Screen Length (lin ft): 10' | Breathing Zone PID (ppm): -NA- |
| | (D) Well Volume (gal) (C x E): 0.20 | Screen Info: Type: PREPACK Size: | Well Opening PID (ppm): -NA- |

| **CASING INFO** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mL) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) Strong odor! |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 041807 | 1245 | 6.72 | 0 | 300 | 20.40 | 7.43 | 3.487 | 2.85 | 140 | 90.4 | TDS: 2.490 g/L bottom |
| 041807 | 1255 | 6.71 | 3000 | 300 | 19.53 | 7.26 | 3.176 | 1.30 | 400 | -34.1 | TDS: 2.598 g/L up 1' |
| 041807 | 1305 | 6.72 | 6000 | 300 | 20.30 | 7.03 | 3.317 | 0.38 | 80 | -216.7 | TDS: 2.396 up 1 |
| 041807 | 1315 | 6.72 | 9000 | 300 | 20.55 | 7.01 | 3.392 | 0.33 | 19 | -230.3 | TDS: 2.532 up 1 |
| 041807 | 1325 | 6.71 | 12000 | 300 | 19.98 | 7.01 | 3.351 | 0.32 | 10 | -250.1 | TDS: 2.558 up 1 |
| 041807 | 1335 | 6.72 | 15000 | 300 | 19.96 | 7.00 | 3.471 | 0.30 | 4.1 | -258.9 | TDS: 2.212 up 1 |
| 041807 | 1345 | 6.71 | 18000 | 200 | 20.14 | 7.01 | 3.058 | 0.27 | 2.9 | -274.9 | TDS: 1.908 |
| 041807 | 1355 | 6.71 | 20000 | 200 | 20.19 | 7.02 | 3.623 | 0.29 | 9.1 | -283.5 | TDS: 2.444 |
| 041807 | 1405 | 6.72 | 22000 | 200 | 22.39 | 7.02 | 3.059 | 0.30 | 4.1 | -278.9 | TDS: 2.517 |
| | | | | | | | | | | | |
| | | | | | NA | | | | | | |
| DEVELOPMENT CRITERIA | | | | | | | | | | | |
| +/- 10% unless otherwise noted | | | | | +/- 0.5 | +/- 0.1 | +/- 25 | +/- 0.2 | < 50.0 | +/- 20 | |

COMMENTS: Strong petroleum odor!

# MONITORING WELL DEVELOPMENT FORM

**REHATE**
*Environmental Engineers and Scientist*

Page 1 of

| | | | |
|---|---|---|---|
| **LOCATION** | Site: WPOL | Location ID: WPOL MW04 | Date: 4/18/07 |
| | Project Name: Groundwater Mon. WPOL | Project No./Phase: 9040238 11.01 | Recorded By: BM |
| **EQUIPMENT** | Pump Type/ID#: Geo-9 / | Water Quality Meter/ID#: Horiba U22 / | PID Type/ID#: — |
| | Water Level Indicator Type/ID#: Heron / | Other Equipment/ID#: Lamotte 2020 / | Decon Method: Liquinox / DI Rinse |
| | Tubing Type/Diameter (in): 1/4 x 3/8 | Other Equipment/ID#: — | PPE Level: D C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): 5.79 | Casing: Type PVC Diam. (in) 2 | Weather: Light clouds, breeze 65° |
| | (B) Total Well Depth (ft BTOC): 11.05 | (E) Casing Volume Multiplier (gal/lin ft): 0.04 | Background PID (ppm): — |
| | (C) Water Column Thickness (ft) (B-A): 5.26 | Screen Length (lin ft): 5 | Breathing Zone PID (ppm): — |
| | (D) Well Volume (gal) (C x E): 0.2 L | Screen Info: Type: Pea Rock Size: 2" | Well Opening PID (ppm): — |

| **CASING INFO** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mL) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/18/07 | 1130 | 5.79 | 0 | 500 | 22.3 | 5.39 | 178 | 10.79 | 469 | 79 | WATER IS CLEAR |
| | 1140 | — | 500 | 250 | 20.1 | 7.13 | 68 | 8.79 | 157 | -21 | Pumping rate reduced |
| | | | | | | | | | | | due to drawdown |
| | WELL | WILL | NOT | DEWATER | AT THE | LOWEST | PUMPING | RATE | available | | |
| | | | | | | | | | | | |
| | Turned | to | dryness | | Terminate | development | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| **DEVELOPMENT CRITERIA** | | | | | | | | | | | |
| +/- 10% unless otherwise noted | | | | | +/- 0.5 | +/- 0.1 | +/- 25 | +/- 0.2 | < 50.0 | +/- 20 | |

**COMMENTS:** TDS @ 1130 - 1123 g/L Sampled MW6 GRO - @ 1300

11.05
5.79
5.26

5.26
.04
.2104

# Monitoring Well Sample Collection Forms

# MONITORING WELL SAMPLE COLLECTION FORM

EBHATE
*Environmental Engineers and Scientist*



| | | | | | |
|---|---|---|---|---|---|
| **LOCATION** | Site: | West POL Yard | Location ID: | WPOL MW01 | Date: 4/18/07 |
| | Project Name: | HAFB West POL | Project No./Phase: | 9040238 11.01 | Recorded By: B.W. |
| **EQUIPMENT** | Pump Type/ID#: | Geotech / | Water Quality Meter/ID#: | Horiba U22 / | PID Type/ID#: — |
| | Water Level Indicator Type/ID#: | Heron / | Other Equipment/ID#: | Lamotte 2020 / | Decon Method: Liquinox / DI Rinse |
| | Tubing Type/Diameter (in): | 1/4 x 3/8 | Other Equipment/ID#: | — | PPE Level: D C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): | 6.43 | Casing: Type PVC | Diam. (in) 2 | Weather: clear breeze 65° |
| | (B) Total Well Depth (ft BTOC): | 12.21 | (E) Casing Volume Multiplier (gal/lin ft): | 0.04 | Background PID (ppm): — |
| | (C) Water Column Thickness (ft) (B-A): | 5.78 | Screen Length (lin ft): | 5' | Breathing Zone PID (ppm): — |
| | (D) Well Volume (gal) (C x E): | 0.3 | Screen Info: Type: Pre Pack | Size: 2" | Well Opening PID (ppm): — |

| **CASING INFO** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1015 | 6.43 | 0 | 250 | 21.4 | 7.50 | 144 | 7.90 | 240 | 49 | water is clear |
| | 1020 | / | 250 | 11 | 19.3 | 7.58 | 140 | 7.62 | 68 | 45 | |
| | 1025 | / | 500 | 11 | 19.1 | 7.57 | 141 | 7.60 | 42 | 41 | |
| | 1030 | / | 750 | 11 | 19.1 | 7.58 | 140 | 7.60 | 32 | 41 | |
| | | 9 Terminate Purge Sample @ 1030 | | | | | | | | | |
| | | | | | | | | | | | |

| Colorimeter Results | | | | | No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units | 3 | 40 ml | VOAs | HCl | N | 8260B | VOCs |
| | | | | | 2 | 1 L | Glass Amber | - | N | 8270C | SVOCs |
| Sample Time | | | | | 3 | 40 mL | VOAs | HCl | N | 8015 | TRPH -GRO |
| | | | | | 2 | 1 L | Glass Amber | H2SO4 | N | 8015 | TRPH - DRO |
| Sample Identification | | | | | 1 | 500 mL | Plastic | - | N | Wet Chem | TDS |
| | | | | | | | | | | | |
| Conversions | Stabilization Criteria | | | | | | | | | | |
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 | | | | | | | |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 | | | | | | | |
| | Cond | +/- 25 | ORP | +/- 10 | | | | | | | |

12.21
6.43
5.78

# MONITORING WELL SAMPLE COLLECTION FORM

MBHATE
*Environmental Engineers and Scientist*



| | | | |
|---|---|---|---|
| **LOCATION** | Site: West POL Yard | Location ID: WPOL-MWØ2 | Date: 18-APR-2007 |
| | Project Name: HAFB West POL | Project No./Phase: 9040238 11.01 | Recorded By: K.THOMPSON |
| **EQUIPMENT** | Pump Type/ID#: MASTER FLEX | Water Quality Meter/ID#: YSI | PID Type/ID#: -NA- |
| | Water Level Indicator Type/ID#: HERON | Other Equipment/ID#: LA MOTTE 2020 | Decon Method: ALQUINOX |
| | Tubing Type/Diameter (in): 1/4" Poly | Other Equipment/ID#: -NA- | PPE Level: (D) C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): 6.38 | Casing: Type PVC Diam. (in) 1" | Weather: Sunny warm 80° |
| | (B) Total Well Depth (ft BTOC): 12.25 | (E) Casing Volume Multiplier (gal/lin ft): Ø.Ø4 | Background PID (ppm): -NA- |
| | (C) Water Column Thickness (ft) (B-A): 5.87 | Screen Length (lin ft): 10 | Breathing Zone PID (ppm): -NA- |
| | (D) Well Volume (gal) (C x E): Ø.2348 g | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): -NA- |

| **CASING INFO** | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | (0.04) | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ø418Ø7 | 113Ø | | — | 2ØØ | 2Ø.16 | 7.22 | 2.894 | 1.64 | 2.2 | 88.5 | TDS: 2.Ø85 g/L @mid $H_2O$ level |
| Ø418Ø7 | 1135 | | 2ØØØ | 2ØØ | 2Ø.47 | 7.2Ø | 2.815 | 1.64 | 3.2 | 88.9 | TDS: 2.Ø26 g/L |
| Ø418Ø7 | 114Ø | | 4ØØØ | 2ØØ | 2Ø.61 | 7.21 | 2.798 | 1.58 | 2.6 | 88.5 | TDS: 1.344 g/L |
| Ø418Ø7 | 1145 | | 6ØØØ | 2ØØ | 2Ø.67 | 7.21 | 2.811 | 1.58 | 2.1 | 84.7 | TDS: 2.Ø19 g/L |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Colorimeter Results | | | | | No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units | 3 | 40 ml | VOAs | HCl | N | 8260B | VOCs |
| | | | | | 2 | 1 L | Glass Amber | - | N | 8270C | SVOCs |
| Sample Time | | | | | 3 | 40 mL | VOAs | HCl | N | 8015 | TPH -GRO |
| 1155 | | | | | 2 | 1 L | Glass Amber | H2SO4 | N | 8015 | TPH - DRO /ORO |
| Sample Identification | | | | | 1 | 500 mL | Plastic | - | N | Wet Chem | TDS |
| WPOL- MWØ2 | | | | | | | | | | | |

| Conversions | Stabilization Criteria | | | |
|---|---|---|---|---|
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 |
| | Cond | +/- 25 | ORP | +/- 10 |

# MONITORING WELL SAMPLE COLLECTION FORM

SHAW E&I
Environmental Engineers and Scientist

Page 1 of

| | | | |
|---|---|---|---|
| LOCATION | Site: West POL Yard | Location ID: WPOL-MW03 | Date: 18-APR2007 |
| | Project Name: HAFB West POL | Project No./Phase: 9040238 11.01 | Recorded By: K. THOMPSON |
| EQUIPMENT | Pump Type/ID#: MASTER FLEX | Water Quality Meter/ID#: YSI | PID Type/ID#: -NA- |
| | Water Level Indicator Type/ID#: HORON | Other Equipment/ID#: LAMOTTE | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" POLY | Other Equipment/ID#: -NA- | PPE Level: (D) C B A |
| WELL INFO | (A) Initial Depth to Water (ft BTOC): 6.70 | Casing: Type PVC Diam. (in) 1 | Weather: Sunny hot 85° |
| | (B) Total Well Depth (ft BTOC): 11.70 | (E) Casing Volume Multiplier (gal/lin ft): 0.04 | Background PID (ppm): -NA- |
| | (C) Water Column Thickness (ft) (B-A): 5.0 | Screen Length (lin ft): 10' | Breathing Zone PID (ppm): -NA- |
| | (D) Well Volume (gal) (C x E): 0.20 | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): -NA- |

| CASING INFO | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 041807 | 1410 | 6.72 | – | 200 | 22.77 | 7.02 | 3.631 | 0.28 | 7.0 | -249.0 | TDS: 1.607 g/L |
| 041807 | 1415 | 6.72 | 201000 | 200 | 23.24 | 7.04 | 3.503 | 0.62 | 4.3 | -243.0 | TDS: 1.670 g/L |
| 041807 | 1420 | 6.72 | 2000 | 200 | 23.09 | 7.05 | 3.780 | 0.55 | 4.7 | -246.8 | TDS: 2.485 g/L |
| 041807 | 1425 | 6.72 | 3000 | 200 | 22.96 | 7.04 | 3.670 | 0.41 | 4.5 | -260.4 | TDS: 1.601 g/L |
| 041807 | 1430 | 6.72 | 4000 | 200 | 22.86 | 7.04 | 3.644 | 0.39 | 4.2 | -268.2 | TDS: 1.685 g/L |
| 041807 | 1435 | 6.72 | 5000 | 200 | 22.84 | 7.04 | 3.455 | 0.32 | 4.6 | -265.7 | TDS: 1.692 g/L |

| Colorimeter Results | | | | |
|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units |
| | | | | |

Sample Time: 1435

Sample Identification: WPOL-MW03 + -a + -MS + -MSD

| Conversions | Stabilization Criteria | | | |
|---|---|---|---|---|
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 |
| | Cond | +/- 25 | ORP | +/- 10 |

| No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|
| 3 | 40 ml | VOAs | HCl | N | 8260B | VOCs |
| 2 | 1 L | Glass Amber | - | N | 8270C | SVOCs |
| 3 | 40 mL | VOAs | HCl | N | 8015 | TRPH -GRO |
| 2 | 1 L | Glass Amber | H2SO4 | N | 8015 | TRPH - DRO |
| 1 | 500 mL | Plastic | - | N | Wet Chem | TDS |

# MONITORING WELL SAMPLE COLLECTION FORM

EBHATE
*Environmental Engineers and Scientist*



| | | | |
|---|---|---|---|
| **LOCATION** | Site: West POL Yard | Location ID: WPOL - MW 04 | Date: 4/18/07 |
| | Project Name: ACM - HAFB | Project No./Phase: 9040738.11.01 | Recorded By: BW |
| **EQUIPMENT** | Pump Type/ID#: MASTER FLEX | Water Quality Meter/ID#: YSI | PID Type/ID#: NA |
| | Water Level Indicator Type/ID#: HERON | Other Equipment/ID#: LA MOTTE | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" POLY | Other Equipment/ID#: NA | PPE Level: (D) C B A |
| **WELL INFO** | (A) Initial Depth to Water (ft BTOC): | Casing: Type PVC Diam. (in) 2 | Weather: Sunny Warm |
| | (B) Total Well Depth (ft BTOC): | (E) Casing Volume Multiplier (gal/lin ft): | Background PID (ppm): NA |
| | (C) Water Column Thickness (ft) (B-A): | Screen Length (lin ft): 10 | Breathing Zone PID (ppm): NA |
| | (D) Well Volume (gal) (C x E): | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): NA |

| **CASING INFO** | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | No purging completed well nearly dry. |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Colorimeter Results | | | | | No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units | 3 | 40 ml | VOAs | HCl | N | 8260B | VOCs / TPH-GRO |
| | | | | | ~~2~~ | ~~1 L~~ | ~~Amber~~ | ~~None~~ | ~~N~~ | ~~8270C~~ | ~~SVOC~~ |
| **Sample Time** | | | | | ~~1~~ | ~~1 L~~ | ~~Amber~~ | ~~None~~ | ~~N~~ | ~~8082~~ | ~~PCBs~~ |
| 1200 | | | | | ~~1~~ | ~~.5 L~~ | ~~Plastic~~ | HNO3 | ~~Y~~ | ~~6010/7470~~ | ~~Metals~~ |
| **Sample Identification** | | | | | | | | | | ~~6860~~ | ~~Perchlorates~~ |
| WPOL - MW04 | | | | | ~~1~~ | ~~.5L~~ | ~~Plastic~~ | ~~None~~ | ~~N~~ | ~~160.1~~ | ~~TDS~~ |

Return to complete sampling @ a later date.

| Conversions | Stabilization Criteria | | | |
|---|---|---|---|---|
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 |
| | Cond | +/- 25 | ORP | +/- 10 |

# MONITORING WELL SAMPLE COLLECTION FORM

FEBHATE
Environmental Engineers and Scientist



| | | | |
|---|---|---|---|
| LOCATION | Site: West POL Yard | Location ID: WPOL-MW04 | Date: 4/23/07 |
| | Project Name: GW monitoring WPOL | Project No./Phase: 9040238.11.01 | Recorded By: BW |
| EQUIPMENT | Pump Type/ID#: MASTER FLEX | Water Quality Meter/ID#: YSI | PID Type/ID#: NA |
| | Water Level Indicator Type/ID#: HERON | Other Equipment/ID#: LA MOTTE | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" POLY | Other Equipment/ID#: NA | PPE Level: (D) C B A |
| WELL INFO | (A) Initial Depth to Water (ft BTOC): | Casing: Type PVC Diam. (in) 1 | Weather: Sunny |
| | (B) Total Well Depth (ft BTOC): | (E) Casing Volume Multiplier (gal/lin ft): | Background PID (ppm): NA |
| | (C) Water Column Thickness (ft) (B-A): | Screen Length (lin ft): 10 | Breathing Zone PID (ppm): NA |
| | (D) Well Volume (gal) (C x E): | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): NA |

| CASING INFO | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | No purging completed well nearly dry |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| Colorimeter Results | | | | | No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units | | | | | | | |
| | | | | | 2 | 1 L | Amber | None | N | 8270C | SVOC |
| Sample Time | | | | | | | | | | | |
| 1130 | | | | | | | | | | | |
| Sample Identification | | | | | | | | | | | |
| WPOL-MW04 | | | | | 1 | .5L | Plastic | None | N | 160.1 | TDS |

Return to sample for TPH DRO/ORO @ a later date.

| Conversions | Stabilization Criteria | | | |
|---|---|---|---|---|
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 |
| | Cond | +/- 25 | ORP | +/- 10 |

# MONITORING WELL SAMPLE COLLECTION FORM

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Environmental Engineers and Scientist



| | | | |
|---|---|---|---|
| LOCATION | Site: West POL Yard | Location ID: WPOL-MW04 | Date: 4/18/07 |
| | Project Name: GW monitoring WPOL | Project No./Phase: 9040238.11.01 | Recorded By: BW |
| EQUIPMENT | Pump Type/ID#: MASTER FLEX | Water Quality Meter/ID#: YSI | PID Type/ID#: NA |
| | Water Level Indicator Type/ID#: HERON | Other Equipment/ID#: LA MOTTE | Decon Method: LIQUINOX |
| | Tubing Type/Diameter (in): 1/4" POLY | Other Equipment/ID#: NA | PPE Level: (D) C B A |
| WELL INFO | (A) Initial Depth to Water (ft BTOC): | Casing: Type PVC Diam. (in) 1 | Weather: Sunny |
| | (B) Total Well Depth (ft BTOC): | (E) Casing Volume Multiplier (gal/lin ft): | Background PID (ppm): |
| | (C) Water Column Thickness (ft) (B-A): | Screen Length (lin ft): 10 | Breathing Zone PID (ppm): |
| | (D) Well Volume (gal) (C x E): | Screen Info: Type: Prepack Size: | Well Opening PID (ppm): |

| CASING INFO | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Riseer/Well Casing Inner Diameter (in) | 0.50 | 1.00 | 1.50 | 2.00 | 3.00 | 4.00 | 5.0 | 6.0 | 8.0 | 10 |
| (D) Casing Volume Multiplier(gal/lin ft) | 0.02 | 0.04 | 0.10 | 0.16 | 0.38 | 0.65 | 1.02 | 1.47 | 2.61 | 4.08 |

| DATE (mmddyy) | TIME (24 Hr) | Water Level (BTOC) | Volume Removed (mLl) | Pumping Rate (mLpm) | Temp (C) | pH | Cond. (mS/cm) | Dissolved Oxygen (mg/l) | Turbidity (NTU) | Oxidation Reduction Potential (mV) | Remarks (odor, clarity, etc.) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | No purging completed well nearly dry |

| Colorimeter Results | | | | | No. Containers/Volume/Type | | | Preserv. | Filter (Y/N) | Method | Parameter(s) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Time | Analyte | Dilution | Result | Units | | | | | | | |
| | | | | | 2 | 1 L | Amber | None | N | 8015 | TPH-DRO/ORO |
| Sample Time | | | | | | | | | | | |
| 0800 | | | | | | | | | | | |
| Sample Identification | | | | | | | | | | | |
| WPOL-MW04 | | | | | | | | | | | |

| Conversions | Stabilization Criteria | | | |
|---|---|---|---|---|
| 1 L = 0.26 gals | Temp | +/- 0.5 | DO | +/- 0.2 |
| 1 gal = 3.79 L | pH | +/- 0.1 | Turb | +/- 10 |
| | Cond | +/- 25 | ORP | +/- 10 |

# Survey Data

# Confirmatory Sampling Locations - 4/2007

| Location (point_name) | ELEV_OBS | EASTING | NORTHING | Top of Casing | Stickup |
|---|---|---|---|---|---|
| west pol-mw 1 | 4059.379 | 1684775.4983 | 670921.8917 | 4059.168 | -0.211 |
| west pol-mw 3 | 4059.548 | 1684735.5015 | 670768.0663 | 4059.434 | -0.114 |
| west pol-mw 4 | 4058.647 | 1684729.7785 | 670648.9402 | 4058.382 | -0.265 |
| west pol-mw 2 | 4059.204 | 1684644.9140 | 670662.9821 | 4059.057 | -0.147 |
| ss66-dp01 | 4057.479 | 1682987.1214 | 670975.1859 | 4058.611 | 1.132 |
| ss69-dp01 | 4059.009 | 1684292.1564 | 670728.5394 | 4059.010 | 0.001 |
| ss69-dp02 | 4058.574 | 1684288.6436 | 670602.3652 | 4058.403 | -0.171 |
| ss69-dp03 | 4058.571 | 1684339.8498 | 670406.2862 | 4058.507 | -0.064 |
| ss72-dp01 | 4050.177 | 1683313.8721 | 668838.9394 | 4050.927 | 0.750 |
| ss67-dp01 | 4047.003 | 1680574.8996 | 669184.6308 | 4047.993 | 0.990 |
| ss72-dp02 | 4049.327 | 1683713.8385 | 668592.8406 | 4050.147 | 0.820 |
| ss72-dp03 | 4048.363 | 1683418.2753 | 668151.6653 | 4049.202 | 0.839 |
| ss65-dp01 | 4047.045 | 1684124.7401 | 667654.9087 | 4048.129 | 1.084 |
| ss67-dp02 | 4046.047 | 1680435.9570 | 669129.5626 | 4046.926 | 0.879 |
| ss73-dp04 | 4103.623 | 1690375.2354 | 677002.6755 | 4106.358 | 2.735 |
| ss73-dp05 | 4103.295 | 1690520.2969 | 676829.7572 | 4105.320 | 2.025 |
| ss73-dp06 | 4101.697 | 1690275.9771 | 676650.8552 | 4102.781 | 1.084 |

# APPENDIX D

# ANALYTICAL DATA PACKAGES

# (ON ENCLOSED CD)

# ANALYTICAL REPORT

Job Number: 680-20904-1

SDG Number: HOLL010

Job Description: HOLLOMAN AFB

For:
Bhate Engineering
1608 13th Avenue South
Suite 300
Birmingham, AL 35205

Attention: Judy Solomon


Linda Wolfe
Project Manager I
lwolfe@stl-inc.com

10/11/2006

Project Manager: Linda Wolfe


The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the STL Project Manager who signed this report.

## Case Narrative for job: 680-J20904-1

Client: Bhate Engineering
Date: 10/11/2006

Volatiles (8260):
Due to the presence of interfering, non-target, compounds the Reporting Limits (RL) for samples 680-20904-6, -8, and -11 are elevated.

Surrogate recovery for4-bromofluorobenzene slightly exceeded the control limits high for sample 20904-6. The sample was reanalyzed and the surrogate recovery was still slighlty high biased. Matrix interference is suspected. Both runs are reported. All other calibration and QC criteria were met.

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Lab Sample ID / Client Sample ID / Analyte | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **680-20904-1 FLSS17-L13-B1R** | | | | | |
| Diesel Range Organics [C10-C28] | 120 | | 3.8 | mg/Kg | 8015B |
| Oil Range Organics (C20-C36) | 230 | | 20 | mg/Kg | 8015B |
| Percent Moisture | 14 | | 1.0 | % | PercentMoisture |
| Percent Solids | 86 | | 1.0 | % | PercentMoisture |
| **680-20904-2 FLSS17-L13-B2R** | | | | | |
| Trichloroethylene | 1.7 | J | 5.6 | ug/Kg | 8260B |
| Bis(2-ethylhexyl) phthalate | 46 | J | 380 | ug/Kg | 8270C |
| Diesel Range Organics [C10-C28] | 78 | | 3.8 | mg/Kg | 8015B |
| Oil Range Organics (C20-C36) | 160 | | 20 | mg/Kg | 8015B |
| Percent Moisture | 14 | | 1.0 | % | PercentMoisture |
| Percent Solids | 86 | | 1.0 | % | PercentMoisture |
| **680-20904-3 FLSS17-L13-B3R** | | | | | |
| Bis(2-ethylhexyl) phthalate | 77 | J | 470 | ug/Kg | 8270C |
| Diesel Range Organics [C10-C28] | 150 | | 9.3 | mg/Kg | 8015B |
| Oil Range Organics (C20-C36) | 300 | | 48 | mg/Kg | 8015B |
| Percent Moisture | 29 | | 1.0 | % | PercentMoisture |
| Percent Solids | 71 | | 1.0 | % | PercentMoisture |
| **680-20904-4 FLSS17-L13-B4R** | | | | | |
| p-Isopropyltoluene | 5.7 | J | 8.7 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | 73 | | 8.7 | ug/Kg | 8260B |
| Bis(2-ethylhexyl) phthalate | 100 | J | 490 | ug/Kg | 8270C |
| Pyrene | 44 | J | 490 | ug/Kg | 8270C |
| Gasoline Range Organics (GRO)-C6-C10 | 0.55 | | 0.39 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | 410 | | 19 | mg/Kg | 8015B |
| Oil Range Organics (C20-C36) | 820 | | 100 | mg/Kg | 8015B |
| Percent Moisture | 32 | | 1.0 | % | PercentMoisture |
| Percent Solids | 68 | | 1.0 | % | PercentMoisture |

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **680-20904-6** | **WPOL-SW20** | | | | | |
| n-Butylbenzene | | 9100 | | 1800 | ug/Kg | 8260B |
| sec-Butylbenzene | | 7900 | | 1800 | ug/Kg | 8260B |
| Ethylbenzene | | 2600 | | 1800 | ug/Kg | 8260B |
| Isopropylbenzene | | 2000 | | 1800 | ug/Kg | 8260B |
| p-Isopropyltoluene | | 6500 | | 1800 | ug/Kg | 8260B |
| N-Propylbenzene | | 3400 | | 1800 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | | 4100 | | 1800 | ug/Kg | 8260B |
| Fluorene | | 170 | J | 500 | ug/Kg | 8270C |
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | | 220 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 3900 | | 50 | mg/Kg | 8015B |
| Percent Moisture | | 34 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 66 | | 1.0 | % | PercentMoisture |
| **680-20904-7** | **WPOL-SW21** | | | | | |
| Carbon disulfide | | 3.5 | J | 5.8 | ug/Kg | 8260B |
| sec-Butylbenzene | | 1.7 | J | 5.8 | ug/Kg | 8260B |
| Gasoline Range Organics (GRO)-C6-C10 | | 0.44 | | 0.29 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 4.5 | J | 4.6 | mg/Kg | 8015B |
| Percent Moisture | | 29 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 71 | | 1.0 | % | PercentMoisture |
| **680-20904-8** | **WPOL-SW22** | | | | | |
| n-Butylbenzene | | 340 | J | 660 | ug/Kg | 8260B |
| sec-Butylbenzene | | 470 | J | 660 | ug/Kg | 8260B |
| Gasoline Range Organics (GRO)-C6-C10 | | 34 | | 6.6 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 340 | | 4.7 | mg/Kg | 8015B |
| Percent Moisture | | 30 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 70 | | 1.0 | % | PercentMoisture |
| **680-20904-9** | **WPOL-SW24** | | | | | |
| Gasoline Range Organics (GRO)-C6-C10 | | 0.14 | J | 0.32 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 2.8 | J | 4.5 | mg/Kg | 8015B |
| Percent Moisture | | 27 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 73 | | 1.0 | % | PercentMoisture |

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Lab Sample ID<br>Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **680-20904-11** | **WPOL-STOCKPILE** | | | | | |
| n-Butylbenzene | | 820 | | 720 | ug/Kg | 8260B |
| sec-Butylbenzene | | 1000 | | 720 | ug/Kg | 8260B |
| Ethylbenzene | | 200 | J | 720 | ug/Kg | 8260B |
| Isopropylbenzene | | 380 | J | 720 | ug/Kg | 8260B |
| N-Propylbenzene | | 710 | J | 720 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | | 330 | J | 720 | ug/Kg | 8260B |
| Gasoline Range Organics (GRO)-C6-C10 | | 85 | | 7.2 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 260 | | 4.6 | mg/Kg | 8015B |
| Percent Moisture | | 28 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 72 | | 1.0 | % | PercentMoisture |

# METHOD SUMMARY

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | STL SAV | SW846 8270C | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | STL SAV | SW846 8015B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | STL SAV | SW846 8015B | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Percent Moisture | STL SAV | EPA PercentMoisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Purge-and-Trap | STL SAV | | SW846 5030B |

## LAB REFERENCES:

STL SAV = STL Savannah

## METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-20904-1 | FLSS17-L13-B1R | Solid | 10/05/2006 0910 | 10/06/2006 0847 |
| 680-20904-2 | FLSS17-L13-B2R | Solid | 10/05/2006 0920 | 10/06/2006 0847 |
| 680-20904-3 | FLSS17-L13-B3R | Solid | 10/05/2006 0930 | 10/06/2006 0847 |
| 680-20904-4 | FLSS17-L13-B4R | Solid | 10/05/2006 0940 | 10/06/2006 0847 |
| 680-20904-5 | Trip Blank | Water | 10/05/2006 0910 | 10/06/2006 0847 |
| 680-20904-6 | WPOL-SW20 | Solid | 10/05/2006 1100 | 10/06/2006 0847 |
| 680-20904-7 | WPOL-SW21 | Solid | 10/05/2006 1115 | 10/06/2006 0847 |
| 680-20904-8 | WPOL-SW22 | Solid | 10/05/2006 1130 | 10/06/2006 0847 |
| 680-20904-9 | WPOL-SW24 | Solid | 10/05/2006 1145 | 10/06/2006 0847 |
| 680-20904-11 | WPOL-Stockpile | Solid | 10/05/2006 1330 | 10/06/2006 0847 |
| 680-20904-12 | Trip Blank | Water | 10/05/2006 0000 | 10/06/2006 0847 |
| 680-20904-13 | Trip Blank | Water | 10/05/2006 0000 | 10/06/2006 0847 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

Lab Sample ID: 680-20904-1
Client Matrix: Solid
% Moisture: 14.1
Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1643
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0996.d
Initial Weight/Volume: 5.4 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 50 | U | 3.0 | 50 |
| Acetonitrile | | 200 | U | 28 | 200 |
| Acrolein | | 100 | U | 11 | 100 |
| Bromobenzene | | 5.0 | U | 0.93 | 5.0 |
| Bromochloromethane | | 5.0 | U | 0.95 | 5.0 |
| Acrylonitrile | | 100 | U | 16 | 100 |
| Benzene | | 5.0 | U | 0.86 | 5.0 |
| Dichlorobromomethane | | 5.0 | U | 1.0 | 5.0 |
| Bromoform | | 5.0 | U | 2.2 | 5.0 |
| Methyl bromide | | 5.0 | U | 1.3 | 5.0 |
| n-Butylbenzene | | 5.0 | U | 0.99 | 5.0 |
| Methyl Ethyl Ketone | | 25 | U | 4.0 | 25 |
| Carbon disulfide | | 5.0 | U | 1.0 | 5.0 |
| sec-Butylbenzene | | 5.0 | U | 1.1 | 5.0 |
| Carbon tetrachloride | | 5.0 | U | 0.89 | 5.0 |
| tert-Butylbenzene | | 5.0 | U | 1.2 | 5.0 |
| Chlorobenzene | | 5.0 | U | 0.69 | 5.0 |
| Chloroethane | | 5.0 | U | 1.5 | 5.0 |
| Chloroform | | 5.0 | U | 0.88 | 5.0 |
| Methyl chloride | | 5.0 | U | 0.70 | 5.0 |
| Allyl chloride | | 5.0 | U | 1.2 | 5.0 |
| Chlorodibromomethane | | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | | 10 | U | 4.6 | 10 |
| 1,2-Dibromoethane | | 5.0 | U | 1.4 | 5.0 |
| 2-Chlorotoluene | | 5.0 | U | 1.4 | 5.0 |
| Methylene bromide | | 5.0 | U | 1.3 | 5.0 |
| trans-1,4-Dichloro-2-butene | | 10 | U | 4.0 | 10 |
| 4-Chlorotoluene | | 5.0 | U | 0.78 | 5.0 |
| Dichlorodifluoromethane | | 5.0 | U | 2.5 | 5.0 |
| 1,1-Dichloroethane | | 5.0 | U | 1.0 | 5.0 |
| 1,2-Dichloroethane | | 5.0 | U | 1.2 | 5.0 |
| 1,1-Dichloroethylene | | 5.0 | U | 1.1 | 5.0 |
| o-Dichlorobenzene | | 5.0 | U | 1.8 | 5.0 |
| trans-1,2-Dichloroethylene | | 5.0 | U | 1.1 | 5.0 |
| m-Dichlorobenzene | | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dichloropropane | | 5.0 | U | 1.3 | 5.0 |
| cis-1,3-Dichloropropene | | 5.0 | U | 0.91 | 5.0 |
| p-Dichlorobenzene | | 5.0 | U | 1.4 | 5.0 |
| trans-1,3-Dichloropropene | | 5.0 | U | 1.1 | 5.0 |
| Ethylbenzene | | 5.0 | U | 0.87 | 5.0 |
| Ethyl methacrylate | | 5.0 | U | 0.77 | 5.0 |
| 2-Hexanone | | 25 | U | 5.4 | 25 |
| Methyl iodide | | 5.0 | U | 1.0 | 5.0 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

Lab Sample ID: 680-20904-1
Client Matrix: Solid
% Moisture: 14.1
Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1643
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0996.d
Initial Weight/Volume: 5.4 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.0 | U | 0.88 | 5.0 |
| Methacrylonitrile | | 100 | U | 16 | 100 |
| Methylene Chloride | | 5.0 | U | 1.6 | 5.0 |
| Methyl methacrylate | | 5.0 | U | 1.7 | 5.0 |
| 1,3-Dichloropropane | | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | | 25 | U | 5.8 | 25 |
| Pentachloroethane | | 25 | U | 4.6 | 25 |
| 2,2-Dichloropropane | | 5.0 | U | 1.2 | 5.0 |
| Propionitrile | | 100 | U | 23 | 100 |
| 1,1-Dichloropropene | | 5.0 | U * | 1.4 | 5.0 |
| Styrene | | 5.0 | U | 0.85 | 5.0 |
| 1,1,1,2-Tetrachloroethane | | 5.0 | U | 1.4 | 5.0 |
| 1,1,2,2-Tetrachloroethane | | 5.0 | U | 1.0 | 5.0 |
| Tetrachloroethylene | | 5.0 | U | 1.0 | 5.0 |
| Toluene | | 5.0 | U | 1.0 | 5.0 |
| Hexachlorobutadiene | | 5.0 | U | 1.6 | 5.0 |
| 1,1,1-Trichloroethane | | 5.0 | U | 0.85 | 5.0 |
| 1,1,2-Trichloroethane | | 5.0 | U | 1.2 | 5.0 |
| Trichloroethylene | | 5.0 | U | 1.2 | 5.0 |
| Isopropylbenzene | | 5.0 | U | 0.99 | 5.0 |
| Trichlorofluoromethane | | 5.0 | U | 1.4 | 5.0 |
| 1,2,3-Trichloropropane | | 5.0 | U | 2.7 | 5.0 |
| p-Isopropyltoluene | | 5.0 | U | 1.2 | 5.0 |
| Vinyl acetate | | 10 | U | 1.9 | 10 |
| Vinyl chloride | | 5.0 | U | 0.92 | 5.0 |
| Methyl tert-butyl ether | | 50 | U | 1.8 | 50 |
| Naphthalene | | 5.0 | U | 3.4 | 5.0 |
| N-Propylbenzene | | 5.0 | U | 1.2 | 5.0 |
| 1,2,3-Trichlorobenzene | | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trichlorobenzene | | 5.0 | U | 2.2 | 5.0 |
| Freon 113 | | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trimethylbenzene | | 5.0 | U | 1.0 | 5.0 |
| 1,3,5-Trimethylbenzene | | 5.0 | U | 1.3 | 5.0 |
| o-Xylene | | 5.0 | U | 1.4 | 5.0 |
| m-Xylene & p-Xylene | | 10 | U | 2.0 | 10 |
| 1-Chlorohexane | | 5.0 | U | 0.78 | 5.0 |
| Hexane | | 5.0 | U | 2.3 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98 | 68 - 121 |
| Dibromofluoromethane | 102 | 66 - 127 |
| Toluene-d8 (Surr) | 92 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B2R**

Lab Sample ID: 680-20904-2
Client Matrix: Solid
% Moisture: 14.4
Date Sampled: 10/05/2006 0920
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1501
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0991.d
Initial Weight/Volume: 5.1 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 56 | U | 3.4 | 56 |
| Acetonitrile | | 220 | U | 31 | 220 |
| Acrolein | | 110 | U | 12 | 110 |
| Bromobenzene | | 5.6 | U | 1.0 | 5.6 |
| Bromochloromethane | | 5.6 | U | 1.1 | 5.6 |
| Acrylonitrile | | 110 | U | 18 | 110 |
| Benzene | | 5.6 | U | 0.97 | 5.6 |
| Dichlorobromomethane | | 5.6 | U | 1.1 | 5.6 |
| Bromoform | | 5.6 | U | 2.5 | 5.6 |
| Methyl bromide | | 5.6 | U | 1.5 | 5.6 |
| n-Butylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Methyl Ethyl Ketone | | 28 | U | 4.5 | 28 |
| Carbon disulfide | | 5.6 | U | 1.1 | 5.6 |
| sec-Butylbenzene | | 5.6 | U | 1.2 | 5.6 |
| Carbon tetrachloride | | 5.6 | U | 1.0 | 5.6 |
| tert-Butylbenzene | | 5.6 | U | 1.3 | 5.6 |
| Chlorobenzene | | 5.6 | U | 0.77 | 5.6 |
| Chloroethane | | 5.6 | U | 1.7 | 5.6 |
| Chloroform | | 5.6 | U | 0.99 | 5.6 |
| Methyl chloride | | 5.6 | U | 0.79 | 5.6 |
| Allyl chloride | | 5.6 | U | 1.3 | 5.6 |
| Chlorodibromomethane | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dibromo-3-Chloropropane | | 11 | U | 5.2 | 11 |
| 1,2-Dibromoethane | | 5.6 | U | 1.6 | 5.6 |
| 2-Chlorotoluene | | 5.6 | U | 1.6 | 5.6 |
| Methylene bromide | | 5.6 | U | 1.5 | 5.6 |
| trans-1,4-Dichloro-2-butene | | 11 | U | 4.5 | 11 |
| 4-Chlorotoluene | | 5.6 | U | 0.88 | 5.6 |
| Dichlorodifluoromethane | | 5.6 | U | 2.8 | 5.6 |
| 1,1-Dichloroethane | | 5.6 | U | 1.1 | 5.6 |
| 1,2-Dichloroethane | | 5.6 | U | 1.3 | 5.6 |
| 1,1-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| o-Dichlorobenzene | | 5.6 | U | 2.0 | 5.6 |
| trans-1,2-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| m-Dichlorobenzene | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dichloropropane | | 5.6 | U | 1.5 | 5.6 |
| cis-1,3-Dichloropropene | | 5.6 | U | 1.0 | 5.6 |
| p-Dichlorobenzene | | 5.6 | U | 1.6 | 5.6 |
| trans-1,3-Dichloropropene | | 5.6 | U | 1.2 | 5.6 |
| Ethylbenzene | | 5.6 | U | 0.98 | 5.6 |
| Ethyl methacrylate | | 5.6 | U | 0.86 | 5.6 |
| 2-Hexanone | | 28 | U | 6.1 | 28 |
| Methyl iodide | | 5.6 | U | 1.1 | 5.6 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B2R**

Lab Sample ID: 680-20904-2
Client Matrix: Solid
% Moisture: 14.4
Date Sampled: 10/05/2006 0920
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1501
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0991.d
Initial Weight/Volume: 5.1 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.6 | U | 0.99 | 5.6 |
| Methacrylonitrile | | 110 | U | 18 | 110 |
| Methylene Chloride | | 5.6 | U | 1.8 | 5.6 |
| Methyl methacrylate | | 5.6 | U | 1.9 | 5.6 |
| 1,3-Dichloropropane | | 5.6 | U | 1.3 | 5.6 |
| 4-Methyl-2-pentanone (MIBK) | | 28 | U | 6.5 | 28 |
| Pentachloroethane | | 28 | U | 5.2 | 28 |
| 2,2-Dichloropropane | | 5.6 | U | 1.3 | 5.6 |
| Propionitrile | | 110 | U | 26 | 110 |
| 1,1-Dichloropropene | | 5.6 | U * | 1.6 | 5.6 |
| Styrene | | 5.6 | U | 0.95 | 5.6 |
| 1,1,1,2-Tetrachloroethane | | 5.6 | U | 1.6 | 5.6 |
| 1,1,2,2-Tetrachloroethane | | 5.6 | U | 1.1 | 5.6 |
| Tetrachloroethylene | | 5.6 | U | 1.1 | 5.6 |
| Toluene | | 5.6 | U | 1.1 | 5.6 |
| Hexachlorobutadiene | | 5.6 | U | 1.8 | 5.6 |
| 1,1,1-Trichloroethane | | 5.6 | U | 0.95 | 5.6 |
| 1,1,2-Trichloroethane | | 5.6 | U | 1.3 | 5.6 |
| Trichloroethylene | | 1.7 | J | 1.3 | 5.6 |
| Isopropylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Trichlorofluoromethane | | 5.6 | U | 1.6 | 5.6 |
| 1,2,3-Trichloropropane | | 5.6 | U | 3.0 | 5.6 |
| p-Isopropyltoluene | | 5.6 | U | 1.3 | 5.6 |
| Vinyl acetate | | 11 | U | 2.1 | 11 |
| Vinyl chloride | | 5.6 | U | 1.0 | 5.6 |
| Methyl tert-butyl ether | | 56 | U | 2.0 | 56 |
| Naphthalene | | 5.6 | U | 3.8 | 5.6 |
| N-Propylbenzene | | 5.6 | U | 1.3 | 5.6 |
| 1,2,3-Trichlorobenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,2,4-Trichlorobenzene | | 5.6 | U | 2.5 | 5.6 |
| Freon 113 | | 5.6 | U | 1.1 | 5.6 |
| 1,2,4-Trimethylbenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,3,5-Trimethylbenzene | | 5.6 | U | 1.5 | 5.6 |
| o-Xylene | | 5.6 | U | 1.6 | 5.6 |
| m-Xylene & p-Xylene | | 11 | U | 2.2 | 11 |
| 1-Chlorohexane | | 5.6 | U | 0.88 | 5.6 |
| Hexane | | 5.6 | U | 2.6 | 5.6 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96 | 68 - 121 |
| Dibromofluoromethane | 107 | 66 - 127 |
| Toluene-d8 (Surr) | 90 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B3R**

Lab Sample ID: 680-20904-3
Client Matrix: Solid
% Moisture: 29.1
Date Sampled: 10/05/2006 0930
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1521
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0992.d
Initial Weight/Volume: 4.9 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 73 | U | 4.4 | 73 |
| Acetonitrile | | 290 | U | 41 | 290 |
| Acrolein | | 150 | U | 16 | 150 |
| Bromobenzene | | 7.3 | U | 1.4 | 7.3 |
| Bromochloromethane | | 7.3 | U | 1.4 | 7.3 |
| Acrylonitrile | | 150 | U | 23 | 150 |
| Benzene | | 7.3 | U | 1.3 | 7.3 |
| Dichlorobromomethane | | 7.3 | U | 1.5 | 7.3 |
| Bromoform | | 7.3 | U | 3.2 | 7.3 |
| Methyl bromide | | 7.3 | U | 1.9 | 7.3 |
| n-Butylbenzene | | 7.3 | U | 1.5 | 7.3 |
| Methyl Ethyl Ketone | | 37 | U | 5.9 | 37 |
| Carbon disulfide | | 7.3 | U | 1.5 | 7.3 |
| sec-Butylbenzene | | 7.3 | U | 1.6 | 7.3 |
| Carbon tetrachloride | | 7.3 | U | 1.3 | 7.3 |
| tert-Butylbenzene | | 7.3 | U | 1.8 | 7.3 |
| Chlorobenzene | | 7.3 | U | 1.0 | 7.3 |
| Chloroethane | | 7.3 | U | 2.2 | 7.3 |
| Chloroform | | 7.3 | U | 1.3 | 7.3 |
| Methyl chloride | | 7.3 | U | 1.0 | 7.3 |
| Allyl chloride | | 7.3 | U | 1.8 | 7.3 |
| Chlorodibromomethane | | 7.3 | U | 1.6 | 7.3 |
| 1,2-Dibromo-3-Chloropropane | | 15 | U | 6.8 | 15 |
| 1,2-Dibromoethane | | 7.3 | U | 2.1 | 7.3 |
| 2-Chlorotoluene | | 7.3 | U | 2.1 | 7.3 |
| Methylene bromide | | 7.3 | U | 1.9 | 7.3 |
| trans-1,4-Dichloro-2-butene | | 15 | U | 5.9 | 15 |
| 4-Chlorotoluene | | 7.3 | U | 1.1 | 7.3 |
| Dichlorodifluoromethane | | 7.3 | U | 3.7 | 7.3 |
| 1,1-Dichloroethane | | 7.3 | U | 1.5 | 7.3 |
| 1,2-Dichloroethane | | 7.3 | U | 1.8 | 7.3 |
| 1,1-Dichloroethylene | | 7.3 | U | 1.6 | 7.3 |
| o-Dichlorobenzene | | 7.3 | U | 2.6 | 7.3 |
| trans-1,2-Dichloroethylene | | 7.3 | U | 1.6 | 7.3 |
| m-Dichlorobenzene | | 7.3 | U | 1.6 | 7.3 |
| 1,2-Dichloropropane | | 7.3 | U | 1.9 | 7.3 |
| cis-1,3-Dichloropropene | | 7.3 | U | 1.3 | 7.3 |
| p-Dichlorobenzene | | 7.3 | U | 2.1 | 7.3 |
| trans-1,3-Dichloropropene | | 7.3 | U | 1.6 | 7.3 |
| Ethylbenzene | | 7.3 | U | 1.3 | 7.3 |
| Ethyl methacrylate | | 7.3 | U | 1.1 | 7.3 |
| 2-Hexanone | | 37 | U | 7.9 | 37 |
| Methyl iodide | | 7.3 | U | 1.5 | 7.3 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B3R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-3 | | | Date Sampled: | 10/05/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 29.1 | Date Received: | 10/06/2006 0847 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-56773 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | l0992.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.9 g |
| Date Analyzed: | 10/06/2006 1521 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 7.3 | U | 1.3 | 7.3 |
| Methacrylonitrile | | 150 | U | 23 | 150 |
| Methylene Chloride | | 7.3 | U | 2.3 | 7.3 |
| Methyl methacrylate | | 7.3 | U | 2.4 | 7.3 |
| 1,3-Dichloropropane | | 7.3 | U | 1.8 | 7.3 |
| 4-Methyl-2-pentanone (MIBK) | | 37 | U | 8.5 | 37 |
| Pentachloroethane | | 37 | U | 6.8 | 37 |
| 2,2-Dichloropropane | | 7.3 | U | 1.8 | 7.3 |
| Propionitrile | | 150 | U | 34 | 150 |
| 1,1-Dichloropropene | | 7.3 | U * | 2.1 | 7.3 |
| Styrene | | 7.3 | U | 1.2 | 7.3 |
| 1,1,1,2-Tetrachloroethane | | 7.3 | U | 2.1 | 7.3 |
| 1,1,2,2-Tetrachloroethane | | 7.3 | U | 1.5 | 7.3 |
| Tetrachloroethylene | | 7.3 | U | 1.5 | 7.3 |
| Toluene | | 7.3 | U | 1.5 | 7.3 |
| Hexachlorobutadiene | | 7.3 | U | 2.3 | 7.3 |
| 1,1,1-Trichloroethane | | 7.3 | U | 1.2 | 7.3 |
| 1,1,2-Trichloroethane | | 7.3 | U | 1.8 | 7.3 |
| Trichloroethylene | | 7.3 | U | 1.8 | 7.3 |
| Isopropylbenzene | | 7.3 | U | 1.5 | 7.3 |
| Trichlorofluoromethane | | 7.3 | U | 2.1 | 7.3 |
| 1,2,3-Trichloropropane | | 7.3 | U | 4.0 | 7.3 |
| p-Isopropyltoluene | | 7.3 | U | 1.8 | 7.3 |
| Vinyl acetate | | 15 | U | 2.8 | 15 |
| Vinyl chloride | | 7.3 | U | 1.4 | 7.3 |
| Methyl tert-butyl ether | | 73 | U | 2.6 | 73 |
| Naphthalene | | 7.3 | U | 5.0 | 7.3 |
| N-Propylbenzene | | 7.3 | U | 1.8 | 7.3 |
| 1,2,3-Trichlorobenzene | | 7.3 | U | 1.5 | 7.3 |
| 1,2,4-Trichlorobenzene | | 7.3 | U | 3.2 | 7.3 |
| Freon 113 | | 7.3 | U | 1.5 | 7.3 |
| 1,2,4-Trimethylbenzene | | 7.3 | U | 1.5 | 7.3 |
| 1,3,5-Trimethylbenzene | | 7.3 | U | 1.9 | 7.3 |
| o-Xylene | | 7.3 | U | 2.1 | 7.3 |
| m-Xylene & p-Xylene | | 15 | U | 2.9 | 15 |
| 1-Chlorohexane | | 7.3 | U | 1.1 | 7.3 |
| Hexane | | 7.3 | U | 3.4 | 7.3 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 94 | 68 - 121 |
| Dibromofluoromethane | 97 | 66 - 127 |
| Toluene-d8 (Surr) | 83 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

Lab Sample ID: 680-20904-4
Client Matrix: Solid
% Moisture: 32.2
Date Sampled: 10/05/2006 0940
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1542
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I0993.d
Initial Weight/Volume: 4.6 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 87 | U | 5.2 | 87 |
| Acetonitrile | | 350 | U | 49 | 350 |
| Acrolein | | 170 | U | 19 | 170 |
| Bromobenzene | | 8.7 | U | 1.6 | 8.7 |
| Bromochloromethane | | 8.7 | U | 1.7 | 8.7 |
| Acrylonitrile | | 170 | U | 27 | 170 |
| Benzene | | 8.7 | U | 1.5 | 8.7 |
| Dichlorobromomethane | | 8.7 | U | 1.7 | 8.7 |
| Bromoform | | 8.7 | U | 3.8 | 8.7 |
| Methyl bromide | | 8.7 | U | 2.3 | 8.7 |
| n-Butylbenzene | | 8.7 | U | 1.7 | 8.7 |
| Methyl Ethyl Ketone | | 44 | U | 7.0 | 44 |
| Carbon disulfide | | 8.7 | U | 1.7 | 8.7 |
| sec-Butylbenzene | | 8.7 | U | 1.9 | 8.7 |
| Carbon tetrachloride | | 8.7 | U | 1.6 | 8.7 |
| tert-Butylbenzene | | 8.7 | U | 2.1 | 8.7 |
| Chlorobenzene | | 8.7 | U | 1.2 | 8.7 |
| Chloroethane | | 8.7 | U | 2.6 | 8.7 |
| Chloroform | | 8.7 | U | 1.5 | 8.7 |
| Methyl chloride | | 8.7 | U | 1.2 | 8.7 |
| Allyl chloride | | 8.7 | U | 2.1 | 8.7 |
| Chlorodibromomethane | | 8.7 | U | 1.9 | 8.7 |
| 1,2-Dibromo-3-Chloropropane | | 17 | U | 8.0 | 17 |
| 1,2-Dibromoethane | | 8.7 | U | 2.4 | 8.7 |
| 2-Chlorotoluene | | 8.7 | U | 2.4 | 8.7 |
| Methylene bromide | | 8.7 | U | 2.3 | 8.7 |
| trans-1,4-Dichloro-2-butene | | 17 | U | 7.0 | 17 |
| 4-Chlorotoluene | | 8.7 | U | 1.4 | 8.7 |
| Dichlorodifluoromethane | | 8.7 | U | 4.4 | 8.7 |
| 1,1-Dichloroethane | | 8.7 | U | 1.7 | 8.7 |
| 1,2-Dichloroethane | | 8.7 | U | 2.1 | 8.7 |
| 1,1-Dichloroethylene | | 8.7 | U | 1.9 | 8.7 |
| o-Dichlorobenzene | | 8.7 | U | 3.1 | 8.7 |
| trans-1,2-Dichloroethylene | | 8.7 | U | 1.9 | 8.7 |
| m-Dichlorobenzene | | 8.7 | U | 1.9 | 8.7 |
| 1,2-Dichloropropane | | 8.7 | U | 2.3 | 8.7 |
| cis-1,3-Dichloropropene | | 8.7 | U | 1.6 | 8.7 |
| p-Dichlorobenzene | | 8.7 | U | 2.4 | 8.7 |
| trans-1,3-Dichloropropene | | 8.7 | U | 1.9 | 8.7 |
| Ethylbenzene | | 8.7 | U | 1.5 | 8.7 |
| Ethyl methacrylate | | 8.7 | U | 1.3 | 8.7 |
| 2-Hexanone | | 44 | U | 9.4 | 44 |
| Methyl iodide | | 8.7 | U | 1.7 | 8.7 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-4 | | | Date Sampled: | 10/05/2006 0940 |
| Client Matrix: | Solid | % Moisture: | 32.2 | Date Received: | 10/06/2006 0847 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-56773 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | I0993.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.6 g |
| Date Analyzed: | 10/06/2006 1542 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 8.7 | U | 1.5 | 8.7 |
| Methacrylonitrile | | 170 | U | 28 | 170 |
| Methylene Chloride | | 8.7 | U | 2.8 | 8.7 |
| Methyl methacrylate | | 8.7 | U | 2.9 | 8.7 |
| 1,3-Dichloropropane | | 8.7 | U | 2.1 | 8.7 |
| 4-Methyl-2-pentanone (MIBK) | | 44 | U | 10 | 44 |
| Pentachloroethane | | 44 | U | 8.0 | 44 |
| 2,2-Dichloropropane | | 8.7 | U | 2.1 | 8.7 |
| Propionitrile | | 170 | U | 40 | 170 |
| 1,1-Dichloropropene | | 8.7 | U * | 2.4 | 8.7 |
| Styrene | | 8.7 | U | 1.5 | 8.7 |
| 1,1,1,2-Tetrachloroethane | | 8.7 | U | 2.4 | 8.7 |
| 1,1,2,2-Tetrachloroethane | | 8.7 | U | 1.7 | 8.7 |
| Tetrachloroethylene | | 8.7 | U | 1.7 | 8.7 |
| Toluene | | 8.7 | U | 1.7 | 8.7 |
| Hexachlorobutadiene | | 8.7 | U | 2.8 | 8.7 |
| 1,1,1-Trichloroethane | | 8.7 | U | 1.5 | 8.7 |
| 1,1,2-Trichloroethane | | 8.7 | U | 2.1 | 8.7 |
| Trichloroethylene | | 8.7 | U | 2.1 | 8.7 |
| Isopropylbenzene | | 8.7 | U | 1.7 | 8.7 |
| Trichlorofluoromethane | | 8.7 | U | 2.4 | 8.7 |
| 1,2,3-Trichloropropane | | 8.7 | U | 4.7 | 8.7 |
| p-Isopropyltoluene | | 5.7 | J | 2.1 | 8.7 |
| Vinyl acetate | | 17 | U | 3.3 | 17 |
| Vinyl chloride | | 8.7 | U | 1.6 | 8.7 |
| Methyl tert-butyl ether | | 87 | U | 3.1 | 87 |
| Naphthalene | | 8.7 | U | 5.9 | 8.7 |
| N-Propylbenzene | | 8.7 | U | 2.1 | 8.7 |
| 1,2,3-Trichlorobenzene | | 8.7 | U | 1.7 | 8.7 |
| 1,2,4-Trichlorobenzene | | 8.7 | U | 3.8 | 8.7 |
| Freon 113 | | 8.7 | U | 1.7 | 8.7 |
| 1,2,4-Trimethylbenzene | | 8.7 | U | 1.7 | 8.7 |
| 1,3,5-Trimethylbenzene | | 73 | | 2.3 | 8.7 |
| o-Xylene | | 8.7 | U | 2.4 | 8.7 |
| m-Xylene & p-Xylene | | 17 | U | 3.5 | 17 |
| 1-Chlorohexane | | 8.7 | U | 1.4 | 8.7 |
| Hexane | | 8.7 | U | 4.0 | 8.7 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 97 | 68 - 121 |
| Dibromofluoromethane | 99 | 66 - 127 |
| Toluene-d8 (Surr) | 93 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-5
Client Matrix: Water

Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1227
Date Prepared: 10/10/2006 1227

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a644.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-5
Client Matrix: Water

Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1227
Date Prepared: 10/10/2006 1227

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a644.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U * | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 94 | 77 - 120 |
| Dibromofluoromethane | 114 | 75 - 123 |
| Toluene-d8 (Surr) | 99 | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid
% Moisture: 34.4
Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 10/10/2006 1553
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1049.d
Initial Weight/Volume: 4.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 18000 | U | 1100 | 18000 |
| Acetonitrile | | 71000 | U | 9900 | 71000 |
| Acrolein | | 35000 | U | 3900 | 35000 |
| Bromobenzene | | 1800 | U | 330 | 1800 |
| Bromochloromethane | | 1800 | U | 340 | 1800 |
| Acrylonitrile | | 35000 | U | 5600 | 35000 |
| Benzene | | 1800 | U | 300 | 1800 |
| Dichlorobromomethane | | 1800 | U | 350 | 1800 |
| Bromoform | | 1800 | U | 780 | 1800 |
| Methyl bromide | | 1800 | U | 460 | 1800 |
| Methyl Ethyl Ketone | | 8900 | U | 1400 | 8900 |
| n-Butylbenzene | | 9100 | | 350 | 1800 |
| Carbon disulfide | | 1800 | U | 350 | 1800 |
| sec-Butylbenzene | | 7900 | | 390 | 1800 |
| Carbon tetrachloride | | 1800 | U | 320 | 1800 |
| tert-Butylbenzene | | 1800 | U | 430 | 1800 |
| Chlorobenzene | | 1800 | U | 240 | 1800 |
| Chloroethane | | 1800 | U | 530 | 1800 |
| Chloroform | | 1800 | U | 310 | 1800 |
| Methyl chloride | | 1800 | U | 250 | 1800 |
| Allyl chloride | | 1800 | U | 430 | 1800 |
| Chlorodibromomethane | | 1800 | U | 390 | 1800 |
| 1,2-Dibromo-3-Chloropropane | | 3500 | U | 1600 | 3500 |
| 1,2-Dibromoethane | | 1800 | U | 500 | 1800 |
| 2-Chlorotoluene | | 1800 | U | 500 | 1800 |
| Methylene bromide | | 1800 | U | 460 | 1800 |
| trans-1,4-Dichloro-2-butene | | 3500 | U | 1400 | 3500 |
| 4-Chlorotoluene | | 1800 | U | 280 | 1800 |
| Dichlorodifluoromethane | | 1800 | U * | 890 | 1800 |
| 1,1-Dichloroethane | | 1800 | U | 350 | 1800 |
| 1,2-Dichloroethane | | 1800 | U | 430 | 1800 |
| 1,1-Dichloroethylene | | 1800 | U | 390 | 1800 |
| o-Dichlorobenzene | | 1800 | U | 640 | 1800 |
| trans-1,2-Dichloroethylene | | 1800 | U | 390 | 1800 |
| m-Dichlorobenzene | | 1800 | U | 390 | 1800 |
| 1,2-Dichloropropane | | 1800 | U | 460 | 1800 |
| cis-1,3-Dichloropropene | | 1800 | U | 320 | 1800 |
| p-Dichlorobenzene | | 1800 | U | 500 | 1800 |
| trans-1,3-Dichloropropene | | 1800 | U | 390 | 1800 |
| Ethylbenzene | | 2600 | | 310 | 1800 |
| Ethyl methacrylate | | 1800 | U | 270 | 1800 |
| 2-Hexanone | | 8900 | U | 1900 | 8900 |
| Methyl iodide | | 1800 | U | 350 | 1800 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid
% Moisture: 34.4
Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 10/10/2006 1553
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1049.d
Initial Weight/Volume: 4.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 1800 | U | 310 | 1800 |
| Methacrylonitrile | | 35000 | U | 5700 | 35000 |
| Methylene Chloride | | 1800 | U | 570 | 1800 |
| Methyl methacrylate | | 1800 | U | 590 | 1800 |
| 1,3-Dichloropropane | | 1800 | U | 430 | 1800 |
| 4-Methyl-2-pentanone (MIBK) | | 8900 | U | 2100 | 8900 |
| Pentachloroethane | | 8900 | U | 1600 | 8900 |
| 2,2-Dichloropropane | | 1800 | U | 430 | 1800 |
| Propionitrile | | 35000 | U | 8200 | 35000 |
| 1,1-Dichloropropene | | 1800 | U | 500 | 1800 |
| Styrene | | 1800 | U | 300 | 1800 |
| 1,1,1,2-Tetrachloroethane | | 1800 | U | 500 | 1800 |
| 1,1,2,2-Tetrachloroethane | | 1800 | U | 350 | 1800 |
| Tetrachloroethylene | | 1800 | U | 350 | 1800 |
| Toluene | | 1800 | U | 350 | 1800 |
| Hexachlorobutadiene | | 1800 | U | 570 | 1800 |
| 1,1,1-Trichloroethane | | 1800 | U | 300 | 1800 |
| 1,1,2-Trichloroethane | | 1800 | U | 430 | 1800 |
| Trichloroethylene | | 1800 | U | 430 | 1800 |
| Trichlorofluoromethane | | 1800 | U | 500 | 1800 |
| Isopropylbenzene | | 2000 | | 350 | 1800 |
| 1,2,3-Trichloropropane | | 1800 | U | 960 | 1800 |
| p-Isopropyltoluene | | 6500 | | 430 | 1800 |
| Vinyl acetate | | 3500 | U | 670 | 3500 |
| Vinyl chloride | | 1800 | U | 330 | 1800 |
| Methyl tert-butyl ether | | 18000 | U | 640 | 18000 |
| Naphthalene | | 1800 | U | 1200 | 1800 |
| N-Propylbenzene | | 3400 | | 430 | 1800 |
| 1,2,3-Trichlorobenzene | | 1800 | U | 350 | 1800 |
| 1,2,4-Trichlorobenzene | | 1800 | U | 780 | 1800 |
| Freon 113 | | 1800 | U | 350 | 1800 |
| 1,2,4-Trimethylbenzene | | 1800 | U | 350 | 1800 |
| 1,3,5-Trimethylbenzene | | 4100 | | 460 | 1800 |
| o-Xylene | | 1800 | U | 500 | 1800 |
| m-Xylene & p-Xylene | | 3500 | U | 710 | 3500 |
| 1-Chlorohexane | | 1800 | U | 280 | 1800 |
| Hexane | | 1800 | U | 820 | 1800 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 128 | X | 68 - 121 |
| Dibromofluoromethane | 92 | | 66 - 127 |
| Toluene-d8 (Surr) | 108 | | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid
% Moisture: 34.4
Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 10/10/2006 1655
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790
Run Type: RA

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1052.d
Initial Weight/Volume: 4.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 18000 | U | 1100 | 18000 |
| Acetonitrile | | 71000 | U | 9900 | 71000 |
| Acrolein | | 35000 | U | 3900 | 35000 |
| Bromobenzene | | 1800 | U | 330 | 1800 |
| Bromochloromethane | | 1800 | U | 340 | 1800 |
| Acrylonitrile | | 35000 | U | 5600 | 35000 |
| Benzene | | 1800 | U | 300 | 1800 |
| Dichlorobromomethane | | 1800 | U | 350 | 1800 |
| Bromoform | | 1800 | U | 780 | 1800 |
| Methyl bromide | | 1800 | U | 460 | 1800 |
| Methyl Ethyl Ketone | | 8900 | U | 1400 | 8900 |
| n-Butylbenzene | | 9300 | | 350 | 1800 |
| Carbon disulfide | | 1800 | U | 350 | 1800 |
| sec-Butylbenzene | | 7300 | | 390 | 1800 |
| Carbon tetrachloride | | 1800 | U | 320 | 1800 |
| tert-Butylbenzene | | 1800 | U | 430 | 1800 |
| Chlorobenzene | | 1800 | U | 240 | 1800 |
| Chloroethane | | 1800 | U | 530 | 1800 |
| Chloroform | | 1800 | U | 310 | 1800 |
| Methyl chloride | | 1800 | U | 250 | 1800 |
| Allyl chloride | | 1800 | U | 430 | 1800 |
| Chlorodibromomethane | | 1800 | U | 390 | 1800 |
| 1,2-Dibromo-3-Chloropropane | | 3500 | U | 1600 | 3500 |
| 1,2-Dibromoethane | | 1800 | U | 500 | 1800 |
| 2-Chlorotoluene | | 1800 | U | 500 | 1800 |
| Methylene bromide | | 1800 | U | 460 | 1800 |
| trans-1,4-Dichloro-2-butene | | 3500 | U | 1400 | 3500 |
| 4-Chlorotoluene | | 1800 | U | 280 | 1800 |
| Dichlorodifluoromethane | | 1800 | U * | 890 | 1800 |
| 1,1-Dichloroethane | | 1800 | U | 350 | 1800 |
| 1,2-Dichloroethane | | 1800 | U | 430 | 1800 |
| 1,1-Dichloroethylene | | 1800 | U | 390 | 1800 |
| o-Dichlorobenzene | | 1800 | U | 640 | 1800 |
| trans-1,2-Dichloroethylene | | 1800 | U | 390 | 1800 |
| m-Dichlorobenzene | | 1800 | U | 390 | 1800 |
| 1,2-Dichloropropane | | 1800 | U | 460 | 1800 |
| cis-1,3-Dichloropropene | | 1800 | U | 320 | 1800 |
| p-Dichlorobenzene | | 1800 | U | 500 | 1800 |
| trans-1,3-Dichloropropene | | 1800 | U | 390 | 1800 |
| Ethylbenzene | | 2500 | | 310 | 1800 |
| Ethyl methacrylate | | 1800 | U | 270 | 1800 |
| 2-Hexanone | | 8900 | U | 1900 | 8900 |
| Methyl iodide | | 1800 | U | 350 | 1800 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-6 | | | Date Sampled: | 10/05/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 34.4 | Date Received: | 10/06/2006 0847 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-56975 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | I1052.d |
| Dilution: | 200 | | | Initial Weight/Volume: | 4.3 g |
| Date Analyzed: | 10/10/2006 1655 | Run Type: | RA | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 1800 | U | 310 | 1800 |
| Methacrylonitrile | | 35000 | U | 5700 | 35000 |
| Methylene Chloride | | 1800 | U | 570 | 1800 |
| Methyl methacrylate | | 1800 | U | 590 | 1800 |
| 1,3-Dichloropropane | | 1800 | U | 430 | 1800 |
| 4-Methyl-2-pentanone (MIBK) | | 8900 | U | 2100 | 8900 |
| Pentachloroethane | | 8900 | U | 1600 | 8900 |
| 2,2-Dichloropropane | | 1800 | U | 430 | 1800 |
| Propionitrile | | 35000 | U | 8200 | 35000 |
| 1,1-Dichloropropene | | 1800 | U | 500 | 1800 |
| Styrene | | 1800 | U | 300 | 1800 |
| 1,1,1,2-Tetrachloroethane | | 1800 | U | 500 | 1800 |
| 1,1,2,2-Tetrachloroethane | | 1800 | U | 350 | 1800 |
| Tetrachloroethylene | | 1800 | U | 350 | 1800 |
| Toluene | | 1800 | U | 350 | 1800 |
| Hexachlorobutadiene | | 1800 | U | 570 | 1800 |
| 1,1,1-Trichloroethane | | 1800 | U | 300 | 1800 |
| 1,1,2-Trichloroethane | | 1800 | U | 430 | 1800 |
| Trichloroethylene | | 1800 | U | 430 | 1800 |
| Trichlorofluoromethane | | 1800 | U | 500 | 1800 |
| Isopropylbenzene | | 1900 | | 350 | 1800 |
| 1,2,3-Trichloropropane | | 1800 | U | 960 | 1800 |
| p-Isopropyltoluene | | 6100 | | 430 | 1800 |
| Vinyl acetate | | 3500 | U | 670 | 3500 |
| Vinyl chloride | | 1800 | U | 330 | 1800 |
| Methyl tert-butyl ether | | 18000 | U | 640 | 18000 |
| Naphthalene | | 1800 | U | 1200 | 1800 |
| N-Propylbenzene | | 3700 | | 430 | 1800 |
| 1,2,3-Trichlorobenzene | | 1800 | U | 350 | 1800 |
| 1,2,4-Trichlorobenzene | | 1800 | U | 780 | 1800 |
| Freon 113 | | 1800 | U | 350 | 1800 |
| 1,2,4-Trimethylbenzene | | 12000 | | 350 | 1800 |
| 1,3,5-Trimethylbenzene | | 4000 | | 460 | 1800 |
| o-Xylene | | 1800 | U | 500 | 1800 |
| m-Xylene & p-Xylene | | 2000 | J | 710 | 3500 |
| 1-Chlorohexane | | 1800 | U | 280 | 1800 |
| Hexane | | 1800 | U | 820 | 1800 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| 4-Bromofluorobenzene | 122 | X | 68 - 121 |
| Dibromofluoromethane | 100 | | 66 - 127 |
| Toluene-d8 (Surr) | 109 | | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

Lab Sample ID: 680-20904-7
Client Matrix: Solid
% Moisture: 28.9
Date Sampled: 10/05/2006 1115
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1602
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0994.d
Initial Weight/Volume: 5.5 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 58 | U | 3.5 | 58 |
| Acetonitrile | | 230 | U | 33 | 230 |
| Acrolein | | 120 | U | 13 | 120 |
| Bromobenzene | | 5.8 | U | 1.1 | 5.8 |
| Bromochloromethane | | 5.8 | U | 1.1 | 5.8 |
| Acrylonitrile | | 120 | U | 18 | 120 |
| Benzene | | 5.8 | U | 1.0 | 5.8 |
| Dichlorobromomethane | | 5.8 | U | 1.2 | 5.8 |
| Bromoform | | 5.8 | U | 2.6 | 5.8 |
| Methyl bromide | | 5.8 | U | 1.5 | 5.8 |
| n-Butylbenzene | | 5.8 | U | 1.2 | 5.8 |
| Methyl Ethyl Ketone | | 29 | U | 4.7 | 29 |
| Carbon disulfide | | 3.5 | J | 1.2 | 5.8 |
| sec-Butylbenzene | | 1.7 | J | 1.3 | 5.8 |
| Carbon tetrachloride | | 5.8 | U | 1.0 | 5.8 |
| tert-Butylbenzene | | 5.8 | U | 1.4 | 5.8 |
| Chlorobenzene | | 5.8 | U | 0.80 | 5.8 |
| Chloroethane | | 5.8 | U | 1.7 | 5.8 |
| Chloroform | | 5.8 | U | 1.0 | 5.8 |
| Methyl chloride | | 5.8 | U | 0.81 | 5.8 |
| Allyl chloride | | 5.8 | U | 1.4 | 5.8 |
| Chlorodibromomethane | | 5.8 | U | 1.3 | 5.8 |
| 1,2-Dibromo-3-Chloropropane | | 12 | U | 5.3 | 12 |
| 1,2-Dibromoethane | | 5.8 | U | 1.6 | 5.8 |
| 2-Chlorotoluene | | 5.8 | U | 1.6 | 5.8 |
| Methylene bromide | | 5.8 | U | 1.5 | 5.8 |
| trans-1,4-Dichloro-2-butene | | 12 | U | 4.7 | 12 |
| 4-Chlorotoluene | | 5.8 | U | 0.91 | 5.8 |
| Dichlorodifluoromethane | | 5.8 | U | 2.9 | 5.8 |
| 1,1-Dichloroethane | | 5.8 | U | 1.2 | 5.8 |
| 1,2-Dichloroethane | | 5.8 | U | 1.4 | 5.8 |
| 1,1-Dichloroethylene | | 5.8 | U | 1.3 | 5.8 |
| o-Dichlorobenzene | | 5.8 | U | 2.1 | 5.8 |
| trans-1,2-Dichloroethylene | | 5.8 | U | 1.3 | 5.8 |
| m-Dichlorobenzene | | 5.8 | U | 1.3 | 5.8 |
| 1,2-Dichloropropane | | 5.8 | U | 1.5 | 5.8 |
| cis-1,3-Dichloropropene | | 5.8 | U | 1.1 | 5.8 |
| p-Dichlorobenzene | | 5.8 | U | 1.6 | 5.8 |
| trans-1,3-Dichloropropene | | 5.8 | U | 1.3 | 5.8 |
| Ethylbenzene | | 5.8 | U | 1.0 | 5.8 |
| Ethyl methacrylate | | 5.8 | U | 0.90 | 5.8 |
| 2-Hexanone | | 29 | U | 6.3 | 29 |
| Methyl iodide | | 5.8 | U | 1.2 | 5.8 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

Lab Sample ID: 680-20904-7
Client Matrix: Solid
% Moisture: 28.9
Date Sampled: 10/05/2006 1115
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1602
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0994.d
Initial Weight/Volume: 5.5 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.8 | U | 1.0 | 5.8 |
| Methacrylonitrile | | 120 | U | 19 | 120 |
| Methylene Chloride | | 5.8 | U | 1.9 | 5.8 |
| Methyl methacrylate | | 5.8 | U | 1.9 | 5.8 |
| 1,3-Dichloropropane | | 5.8 | U | 1.4 | 5.8 |
| 4-Methyl-2-pentanone (MIBK) | | 29 | U | 6.7 | 29 |
| Pentachloroethane | | 29 | U | 5.3 | 29 |
| 2,2-Dichloropropane | | 5.8 | U | 1.4 | 5.8 |
| Propionitrile | | 120 | U | 27 | 120 |
| 1,1-Dichloropropene | | 5.8 | U * | 1.6 | 5.8 |
| Styrene | | 5.8 | U | 0.99 | 5.8 |
| 1,1,1,2-Tetrachloroethane | | 5.8 | U | 1.6 | 5.8 |
| 1,1,2,2-Tetrachloroethane | | 5.8 | U | 1.2 | 5.8 |
| Tetrachloroethylene | | 5.8 | U | 1.2 | 5.8 |
| Toluene | | 5.8 | U | 1.2 | 5.8 |
| Hexachlorobutadiene | | 5.8 | U | 1.9 | 5.8 |
| 1,1,1-Trichloroethane | | 5.8 | U | 0.99 | 5.8 |
| 1,1,2-Trichloroethane | | 5.8 | U | 1.4 | 5.8 |
| Trichloroethylene | | 5.8 | U | 1.4 | 5.8 |
| Isopropylbenzene | | 5.8 | U | 1.2 | 5.8 |
| Trichlorofluoromethane | | 5.8 | U | 1.6 | 5.8 |
| 1,2,3-Trichloropropane | | 5.8 | U | 3.1 | 5.8 |
| p-Isopropyltoluene | | 5.8 | U | 1.4 | 5.8 |
| Vinyl acetate | | 12 | U | 2.2 | 12 |
| Vinyl chloride | | 5.8 | U | 1.1 | 5.8 |
| Methyl tert-butyl ether | | 58 | U | 2.1 | 58 |
| Naphthalene | | 5.8 | U | 4.0 | 5.8 |
| N-Propylbenzene | | 5.8 | U | 1.4 | 5.8 |
| 1,2,3-Trichlorobenzene | | 5.8 | U | 1.2 | 5.8 |
| 1,2,4-Trichlorobenzene | | 5.8 | U | 2.6 | 5.8 |
| Freon 113 | | 5.8 | U | 1.2 | 5.8 |
| 1,2,4-Trimethylbenzene | | 5.8 | U | 1.2 | 5.8 |
| 1,3,5-Trimethylbenzene | | 5.8 | U | 1.5 | 5.8 |
| o-Xylene | | 5.8 | U | 1.6 | 5.8 |
| m-Xylene & p-Xylene | | 12 | U | 2.3 | 12 |
| 1-Chlorohexane | | 5.8 | U | 0.91 | 5.8 |
| Hexane | | 5.8 | U | 2.7 | 5.8 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 99 | 68 - 121 |
| Dibromofluoromethane | 105 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

Lab Sample ID: 680-20904-8
Client Matrix: Solid
% Moisture: 29.8
Date Sampled: 10/05/2006 1130
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 10/10/2006 1614
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1050.d
Initial Weight/Volume: 5.4 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 6600 | U | 400 | 6600 |
| Acetonitrile | | 26000 | U | 3700 | 26000 |
| Acrolein | | 13000 | U | 1500 | 13000 |
| Bromobenzene | | 660 | U | 120 | 660 |
| Bromochloromethane | | 660 | U | 130 | 660 |
| Acrylonitrile | | 13000 | U | 2100 | 13000 |
| Benzene | | 660 | U | 110 | 660 |
| Dichlorobromomethane | | 660 | U | 130 | 660 |
| Bromoform | | 660 | U | 290 | 660 |
| Methyl bromide | | 660 | U | 170 | 660 |
| Methyl Ethyl Ketone | | 3300 | U | 530 | 3300 |
| n-Butylbenzene | | 340 | J | 130 | 660 |
| Carbon disulfide | | 660 | U | 130 | 660 |
| sec-Butylbenzene | | 470 | J | 150 | 660 |
| Carbon tetrachloride | | 660 | U | 120 | 660 |
| tert-Butylbenzene | | 660 | U | 160 | 660 |
| Chlorobenzene | | 660 | U | 91 | 660 |
| Chloroethane | | 660 | U | 200 | 660 |
| Chloroform | | 660 | U | 120 | 660 |
| Methyl chloride | | 660 | U | 92 | 660 |
| Allyl chloride | | 660 | U | 160 | 660 |
| Chlorodibromomethane | | 660 | U | 150 | 660 |
| 1,2-Dibromo-3-Chloropropane | | 1300 | U | 610 | 1300 |
| 1,2-Dibromoethane | | 660 | U | 180 | 660 |
| 2-Chlorotoluene | | 660 | U | 180 | 660 |
| Methylene bromide | | 660 | U | 170 | 660 |
| trans-1,4-Dichloro-2-butene | | 1300 | U | 530 | 1300 |
| 4-Chlorotoluene | | 660 | U | 100 | 660 |
| Dichlorodifluoromethane | | 660 | U * | 330 | 660 |
| 1,1-Dichloroethane | | 660 | U | 130 | 660 |
| 1,2-Dichloroethane | | 660 | U | 160 | 660 |
| 1,1-Dichloroethylene | | 660 | U | 150 | 660 |
| o-Dichlorobenzene | | 660 | U | 240 | 660 |
| trans-1,2-Dichloroethylene | | 660 | U | 150 | 660 |
| m-Dichlorobenzene | | 660 | U | 150 | 660 |
| 1,2-Dichloropropane | | 660 | U | 170 | 660 |
| cis-1,3-Dichloropropene | | 660 | U | 120 | 660 |
| p-Dichlorobenzene | | 660 | U | 180 | 660 |
| trans-1,3-Dichloropropene | | 660 | U | 150 | 660 |
| Ethylbenzene | | 660 | U | 110 | 660 |
| Ethyl methacrylate | | 660 | U | 100 | 660 |
| 2-Hexanone | | 3300 | U | 710 | 3300 |
| Methyl iodide | | 660 | U | 130 | 660 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-8 | | | Date Sampled: | 10/05/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 29.8 | Date Received: | 10/06/2006 0847 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-56975 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | I1050.d |
| Dilution: | 100 | | | Initial Weight/Volume: | 5.4 g |
| Date Analyzed: | 10/10/2006 1614 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 660 | U | 120 | 660 |
| Methacrylonitrile | | 13000 | U | 2100 | 13000 |
| Methylene Chloride | | 660 | U | 210 | 660 |
| Methyl methacrylate | | 660 | U | 220 | 660 |
| 1,3-Dichloropropane | | 660 | U | 160 | 660 |
| 4-Methyl-2-pentanone (MIBK) | | 3300 | U | 760 | 3300 |
| Pentachloroethane | | 3300 | U | 610 | 3300 |
| 2,2-Dichloropropane | | 660 | U | 160 | 660 |
| Propionitrile | | 13000 | U | 3000 | 13000 |
| 1,1-Dichloropropene | | 660 | U | 180 | 660 |
| Styrene | | 660 | U | 110 | 660 |
| 1,1,1,2-Tetrachloroethane | | 660 | U | 180 | 660 |
| 1,1,2,2-Tetrachloroethane | | 660 | U | 130 | 660 |
| Tetrachloroethylene | | 660 | U | 130 | 660 |
| Toluene | | 660 | U | 130 | 660 |
| Hexachlorobutadiene | | 660 | U | 210 | 660 |
| 1,1,1-Trichloroethane | | 660 | U | 110 | 660 |
| 1,1,2-Trichloroethane | | 660 | U | 160 | 660 |
| Trichloroethylene | | 660 | U | 160 | 660 |
| Isopropylbenzene | | 660 | U | 130 | 660 |
| Trichlorofluoromethane | | 660 | U | 180 | 660 |
| 1,2,3-Trichloropropane | | 660 | U | 360 | 660 |
| p-Isopropyltoluene | | 660 | U | 160 | 660 |
| Vinyl acetate | | 1300 | U | 250 | 1300 |
| Vinyl chloride | | 660 | U | 120 | 660 |
| Methyl tert-butyl ether | | 6600 | U | 240 | 6600 |
| Naphthalene | | 660 | U | 450 | 660 |
| N-Propylbenzene | | 660 | U | 160 | 660 |
| 1,2,3-Trichlorobenzene | | 660 | U | 130 | 660 |
| 1,2,4-Trichlorobenzene | | 660 | U | 290 | 660 |
| Freon 113 | | 660 | U | 130 | 660 |
| 1,2,4-Trimethylbenzene | | 660 | U | 130 | 660 |
| 1,3,5-Trimethylbenzene | | 660 | U | 170 | 660 |
| o-Xylene | | 660 | U | 180 | 660 |
| m-Xylene & p-Xylene | | 1300 | U | 260 | 1300 |
| 1-Chlorohexane | | 660 | U | 100 | 660 |
| Hexane | | 660 | U | 300 | 660 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 105 | 68 - 121 |
| Dibromofluoromethane | 99 | 66 - 127 |
| Toluene-d8 (Surr) | 102 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW24**

Lab Sample ID: 680-20904-9
Client Matrix: Solid
% Moisture: 27.1
Date Sampled: 10/05/2006 1145
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1622
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0995.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 49 | U | 3.0 | 49 |
| Acetonitrile | | 200 | U | 28 | 200 |
| Acrolein | | 99 | U | 11 | 99 |
| Bromobenzene | | 4.9 | U | 0.92 | 4.9 |
| Bromochloromethane | | 4.9 | U | 0.94 | 4.9 |
| Acrylonitrile | | 99 | U | 15 | 99 |
| Benzene | | 4.9 | U | 0.85 | 4.9 |
| Dichlorobromomethane | | 4.9 | U | 0.99 | 4.9 |
| Bromoform | | 4.9 | U | 2.2 | 4.9 |
| Methyl bromide | | 4.9 | U | 1.3 | 4.9 |
| n-Butylbenzene | | 4.9 | U | 0.98 | 4.9 |
| Methyl Ethyl Ketone | | 25 | U | 3.9 | 25 |
| Carbon disulfide | | 4.9 | U | 0.99 | 4.9 |
| sec-Butylbenzene | | 4.9 | U | 1.1 | 4.9 |
| Carbon tetrachloride | | 4.9 | U | 0.88 | 4.9 |
| tert-Butylbenzene | | 4.9 | U | 1.2 | 4.9 |
| Chlorobenzene | | 4.9 | U | 0.68 | 4.9 |
| Chloroethane | | 4.9 | U | 1.5 | 4.9 |
| Chloroform | | 4.9 | U | 0.87 | 4.9 |
| Methyl chloride | | 4.9 | U | 0.69 | 4.9 |
| Allyl chloride | | 4.9 | U | 1.2 | 4.9 |
| Chlorodibromomethane | | 4.9 | U | 1.1 | 4.9 |
| 1,2-Dibromo-3-Chloropropane | | 9.9 | U | 4.5 | 9.9 |
| 1,2-Dibromoethane | | 4.9 | U | 1.4 | 4.9 |
| 2-Chlorotoluene | | 4.9 | U | 1.4 | 4.9 |
| Methylene bromide | | 4.9 | U | 1.3 | 4.9 |
| trans-1,4-Dichloro-2-butene | | 9.9 | U | 3.9 | 9.9 |
| 4-Chlorotoluene | | 4.9 | U | 0.77 | 4.9 |
| Dichlorodifluoromethane | | 4.9 | U | 2.5 | 4.9 |
| 1,1-Dichloroethane | | 4.9 | U | 0.99 | 4.9 |
| 1,2-Dichloroethane | | 4.9 | U | 1.2 | 4.9 |
| 1,1-Dichloroethylene | | 4.9 | U | 1.1 | 4.9 |
| o-Dichlorobenzene | | 4.9 | U | 1.8 | 4.9 |
| trans-1,2-Dichloroethylene | | 4.9 | U | 1.1 | 4.9 |
| m-Dichlorobenzene | | 4.9 | U | 1.1 | 4.9 |
| 1,2-Dichloropropane | | 4.9 | U | 1.3 | 4.9 |
| cis-1,3-Dichloropropene | | 4.9 | U | 0.90 | 4.9 |
| p-Dichlorobenzene | | 4.9 | U | 1.4 | 4.9 |
| trans-1,3-Dichloropropene | | 4.9 | U | 1.1 | 4.9 |
| Ethylbenzene | | 4.9 | U | 0.86 | 4.9 |
| Ethyl methacrylate | | 4.9 | U | 0.76 | 4.9 |
| 2-Hexanone | | 25 | U | 5.3 | 25 |
| Methyl iodide | | 4.9 | U | 0.99 | 4.9 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW24**

Lab Sample ID: 680-20904-9
Client Matrix: Solid
% Moisture: 27.1
Date Sampled: 10/05/2006 1145
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/06/2006 1622
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56773
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: l0995.d
Initial Weight/Volume: 5.9 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 4.9 | U | 0.87 | 4.9 |
| Methacrylonitrile | | 99 | U | 16 | 99 |
| Methylene Chloride | | 4.9 | U | 1.6 | 4.9 |
| Methyl methacrylate | | 4.9 | U | 1.6 | 4.9 |
| 1,3-Dichloropropane | | 4.9 | U | 1.2 | 4.9 |
| 4-Methyl-2-pentanone (MIBK) | | 25 | U | 5.7 | 25 |
| Pentachloroethane | | 25 | U | 4.5 | 25 |
| 2,2-Dichloropropane | | 4.9 | U | 1.2 | 4.9 |
| Propionitrile | | 99 | U | 23 | 99 |
| 1,1-Dichloropropene | | 4.9 | U * | 1.4 | 4.9 |
| Styrene | | 4.9 | U | 0.84 | 4.9 |
| 1,1,1,2-Tetrachloroethane | | 4.9 | U | 1.4 | 4.9 |
| 1,1,2,2-Tetrachloroethane | | 4.9 | U | 0.99 | 4.9 |
| Tetrachloroethylene | | 4.9 | U | 0.99 | 4.9 |
| Toluene | | 4.9 | U | 0.99 | 4.9 |
| Hexachlorobutadiene | | 4.9 | U | 1.6 | 4.9 |
| 1,1,1-Trichloroethane | | 4.9 | U | 0.84 | 4.9 |
| 1,1,2-Trichloroethane | | 4.9 | U | 1.2 | 4.9 |
| Trichloroethylene | | 4.9 | U | 1.2 | 4.9 |
| Isopropylbenzene | | 4.9 | U | 0.98 | 4.9 |
| Trichlorofluoromethane | | 4.9 | U | 1.4 | 4.9 |
| 1,2,3-Trichloropropane | | 4.9 | U | 2.7 | 4.9 |
| p-Isopropyltoluene | | 4.9 | U | 1.2 | 4.9 |
| Vinyl acetate | | 9.9 | U | 1.9 | 9.9 |
| Vinyl chloride | | 4.9 | U | 0.91 | 4.9 |
| Methyl tert-butyl ether | | 49 | U | 1.8 | 49 |
| Naphthalene | | 4.9 | U | 3.3 | 4.9 |
| N-Propylbenzene | | 4.9 | U | 1.2 | 4.9 |
| 1,2,3-Trichlorobenzene | | 4.9 | U | 0.99 | 4.9 |
| 1,2,4-Trichlorobenzene | | 4.9 | U | 2.2 | 4.9 |
| Freon 113 | | 4.9 | U | 0.99 | 4.9 |
| 1,2,4-Trimethylbenzene | | 4.9 | U | 0.99 | 4.9 |
| 1,3,5-Trimethylbenzene | | 4.9 | U | 1.3 | 4.9 |
| o-Xylene | | 4.9 | U | 1.4 | 4.9 |
| m-Xylene & p-Xylene | | 9.9 | U | 2.0 | 9.9 |
| 1-Chlorohexane | | 4.9 | U | 0.77 | 4.9 |
| Hexane | | 4.9 | U | 2.3 | 4.9 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 68 - 121 |
| Dibromofluoromethane | 100 | 66 - 127 |
| Toluene-d8 (Surr) | 101 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

Lab Sample ID: 680-20904-11
Client Matrix: Solid
% Moisture: 27.7
Date Sampled: 10/05/2006 1330
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 10/10/2006 1716
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1053.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 7200 | U | 430 | 7200 |
| Acetonitrile | | 29000 | U | 4000 | 29000 |
| Acrolein | | 14000 | U | 1600 | 14000 |
| Bromobenzene | | 720 | U | 130 | 720 |
| Bromochloromethane | | 720 | U | 140 | 720 |
| Acrylonitrile | | 14000 | U | 2300 | 14000 |
| Benzene | | 720 | U | 120 | 720 |
| Dichlorobromomethane | | 720 | U | 140 | 720 |
| Bromoform | | 720 | U | 320 | 720 |
| Methyl bromide | | 720 | U | 190 | 720 |
| Methyl Ethyl Ketone | | 3600 | U | 580 | 3600 |
| n-Butylbenzene | | 820 | | 140 | 720 |
| Carbon disulfide | | 720 | U | 140 | 720 |
| sec-Butylbenzene | | 1000 | | 160 | 720 |
| Carbon tetrachloride | | 720 | U | 130 | 720 |
| tert-Butylbenzene | | 720 | U | 170 | 720 |
| Chlorobenzene | | 720 | U | 99 | 720 |
| Chloroethane | | 720 | U | 220 | 720 |
| Chloroform | | 720 | U | 130 | 720 |
| Methyl chloride | | 720 | U | 100 | 720 |
| Allyl chloride | | 720 | U | 170 | 720 |
| Chlorodibromomethane | | 720 | U | 160 | 720 |
| 1,2-Dibromo-3-Chloropropane | | 1400 | U | 660 | 1400 |
| 1,2-Dibromoethane | | 720 | U | 200 | 720 |
| 2-Chlorotoluene | | 720 | U | 200 | 720 |
| Methylene bromide | | 720 | U | 190 | 720 |
| trans-1,4-Dichloro-2-butene | | 1400 | U | 580 | 1400 |
| 4-Chlorotoluene | | 720 | U | 110 | 720 |
| Dichlorodifluoromethane | | 720 | U * | 360 | 720 |
| 1,1-Dichloroethane | | 720 | U | 140 | 720 |
| 1,2-Dichloroethane | | 720 | U | 170 | 720 |
| 1,1-Dichloroethylene | | 720 | U | 160 | 720 |
| o-Dichlorobenzene | | 720 | U | 260 | 720 |
| trans-1,2-Dichloroethylene | | 720 | U | 160 | 720 |
| m-Dichlorobenzene | | 720 | U | 160 | 720 |
| 1,2-Dichloropropane | | 720 | U | 190 | 720 |
| cis-1,3-Dichloropropene | | 720 | U | 130 | 720 |
| p-Dichlorobenzene | | 720 | U | 200 | 720 |
| trans-1,3-Dichloropropene | | 720 | U | 160 | 720 |
| Ethylbenzene | | 200 | J | 130 | 720 |
| Ethyl methacrylate | | 720 | U | 110 | 720 |
| 2-Hexanone | | 3600 | U | 780 | 3600 |
| Methyl iodide | | 720 | U | 140 | 720 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

Lab Sample ID: 680-20904-11
Client Matrix: Solid
% Moisture: 27.7
Date Sampled: 10/05/2006 1330
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 10/10/2006 1716
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56975
Prep Batch: 680-56790

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1053.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 720 | U | 130 | 720 |
| Methacrylonitrile | | 14000 | U | 2300 | 14000 |
| Methylene Chloride | | 720 | U | 230 | 720 |
| Methyl methacrylate | | 720 | U | 240 | 720 |
| 1,3-Dichloropropane | | 720 | U | 170 | 720 |
| 4-Methyl-2-pentanone (MIBK) | | 3600 | U | 840 | 3600 |
| Pentachloroethane | | 3600 | U | 660 | 3600 |
| 2,2-Dichloropropane | | 720 | U | 170 | 720 |
| Propionitrile | | 14000 | U | 3300 | 14000 |
| 1,1-Dichloropropene | | 720 | U | 200 | 720 |
| Styrene | | 720 | U | 120 | 720 |
| 1,1,1,2-Tetrachloroethane | | 720 | U | 200 | 720 |
| 1,1,2,2-Tetrachloroethane | | 720 | U | 140 | 720 |
| Tetrachloroethylene | | 720 | U | 140 | 720 |
| Toluene | | 720 | U | 140 | 720 |
| Hexachlorobutadiene | | 720 | U | 230 | 720 |
| 1,1,1-Trichloroethane | | 720 | U | 120 | 720 |
| 1,1,2-Trichloroethane | | 720 | U | 170 | 720 |
| Trichloroethylene | | 720 | U | 170 | 720 |
| Trichlorofluoromethane | | 720 | U | 200 | 720 |
| Isopropylbenzene | | 380 | J | 140 | 720 |
| 1,2,3-Trichloropropane | | 720 | U | 390 | 720 |
| p-Isopropyltoluene | | 720 | U | 170 | 720 |
| Vinyl acetate | | 1400 | U | 270 | 1400 |
| Vinyl chloride | | 720 | U | 130 | 720 |
| Methyl tert-butyl ether | | 7200 | U | 260 | 7200 |
| Naphthalene | | 720 | U | 490 | 720 |
| N-Propylbenzene | | 710 | J | 170 | 720 |
| 1,2,3-Trichlorobenzene | | 720 | U | 140 | 720 |
| 1,2,4-Trichlorobenzene | | 720 | U | 320 | 720 |
| Freon 113 | | 720 | U | 140 | 720 |
| 1,2,4-Trimethylbenzene | | 720 | U | 140 | 720 |
| 1,3,5-Trimethylbenzene | | 330 | J | 190 | 720 |
| o-Xylene | | 720 | U | 200 | 720 |
| m-Xylene & p-Xylene | | 1400 | U | 290 | 1400 |
| 1-Chlorohexane | | 720 | U | 110 | 720 |
| Hexane | | 720 | U | 330 | 720 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 68 - 121 |
| Dibromofluoromethane | 102 | 66 - 127 |
| Toluene-d8 (Surr) | 120 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-12
Client Matrix: Water

Date Sampled: 10/05/2006 0000
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1323
Date Prepared: 10/10/2006 1323

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a648.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-12
Client Matrix: Water

Date Sampled: 10/05/2006 0000
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1323
Date Prepared: 10/10/2006 1323

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a648.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U * | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 94 | 77 - 120 |
| Dibromofluoromethane | 114 | 75 - 123 |
| Toluene-d8 (Surr) | 98 | 79 - 122 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-13
Client Matrix: Water

Date Sampled: 10/05/2006 0000
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1255
Date Prepared: 10/10/2006 1255

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a646.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-20904-13
Client Matrix: Water

Date Sampled: 10/05/2006 0000
Date Received: 10/06/2006 0847

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/10/2006 1255
Date Prepared: 10/10/2006 1255

Analysis Batch: 680-56985

Instrument ID: GC/MS Volatiles - A
Lab File ID: a646.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U * | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 97 | 77 - 120 |
| Dibromofluoromethane | 117 | 75 - 123 |
| Toluene-d8 (Surr) | 100 | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

Lab Sample ID: 680-20904-1
Client Matrix: Solid
% Moisture: 14.1
Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 0907
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3923.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 380 | U | 22 | 380 |
| Acenaphthylene | | 380 | U | 20 | 380 |
| Anthracene | | 380 | U | 27 | 380 |
| Benzidine | | 3100 | U | 97 | 3100 |
| Benzo[a]anthracene | | 380 | U | 36 | 380 |
| Benzo[a]pyrene | | 380 | U | 22 | 380 |
| Benzo[b]fluoranthene | | 380 | U | 30 | 380 |
| Benzo[g,h,i]perylene | | 380 | U | 27 | 380 |
| Benzoic acid | | 2000 | U * | 200 | 2000 |
| Benzo[k]fluoranthene | | 380 | U | 42 | 380 |
| Benzyl alcohol | | 380 | U | 44 | 380 |
| Bis(2-chloroethoxy)methane | | 380 | U | 28 | 380 |
| Bis(2-chloroethyl)ether | | 380 | U | 33 | 380 |
| bis(chloroisopropyl) ether | | 380 | U | 41 | 380 |
| Bis(2-ethylhexyl) phthalate | | 380 | U | 44 | 380 |
| 4-Bromophenyl phenyl ether | | 380 | U | 36 | 380 |
| Butyl benzyl phthalate | | 380 | U | 31 | 380 |
| 4-Chloroaniline | | 770 | U | 30 | 770 |
| 4-Chloro-3-methylphenol | | 380 | U | 40 | 380 |
| 2-Chloronaphthalene | | 380 | U | 28 | 380 |
| 2-Chlorophenol | | 380 | U | 31 | 380 |
| 4-Chlorophenyl phenyl ether | | 380 | U | 22 | 380 |
| Chrysene | | 380 | U | 29 | 380 |
| Dibenz(a,h)anthracene | | 380 | U | 28 | 380 |
| Dibenzofuran | | 380 | U | 22 | 380 |
| 1,2-Dichlorobenzene | | 380 | U | 27 | 380 |
| 1,3-Dichlorobenzene | | 380 | U | 30 | 380 |
| 1,4-Dichlorobenzene | | 380 | U | 26 | 380 |
| 3,3'-Dichlorobenzidine | | 770 | U | 35 | 770 |
| 2,4-Dichlorophenol | | 380 | U | 27 | 380 |
| Diethyl phthalate | | 380 | U | 26 | 380 |
| 2,4-Dimethylphenol | | 380 | U | 41 | 380 |
| Dimethyl phthalate | | 380 | U | 22 | 380 |
| Di-n-butyl phthalate | | 380 | U | 33 | 380 |
| 4,6-Dinitro-o-cresol | | 2000 | U | 230 | 2000 |
| 2,4-Dinitrophenol | | 2000 | U | 200 | 2000 |
| 2,6-Dinitrotoluene | | 380 | U | 38 | 380 |
| 2,4-Dinitrotoluene | | 380 | U | 22 | 380 |
| Di-n-octyl phthalate | | 380 | U | 36 | 380 |
| Fluoranthene | | 380 | U | 30 | 380 |
| Fluorene | | 380 | U | 26 | 380 |
| Hexachlorobenzene | | 380 | U | 30 | 380 |
| Hexachlorobutadiene | | 380 | U | 23 | 380 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-1 | | | Date Sampled: | 10/05/2006 0910 |
| Client Matrix: | Solid | % Moisture: | 14.1 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3923.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.02 g |
| Date Analyzed: | 10/09/2006 0907 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 380 | U | 97 | 380 |
| Hexachloroethane | | 380 | U | 23 | 380 |
| Indeno[1,2,3-cd]pyrene | | 380 | U | 30 | 380 |
| Isophorone | | 380 | U | 26 | 380 |
| 2-Methylnaphthalene | | 380 | U | 28 | 380 |
| 2-Methylphenol | | 380 | U | 35 | 380 |
| 3 & 4 Methylphenol | | 380 | U | 34 | 380 |
| Naphthalene | | 380 | U | 22 | 380 |
| 3-Nitroaniline | | 2000 | U | 38 | 2000 |
| 2-Nitroaniline | | 2000 | U | 27 | 2000 |
| 4-Nitroaniline | | 2000 | U | 20 | 2000 |
| Nitrobenzene | | 380 | U | 41 | 380 |
| 4-Nitrophenol | | 2000 | U | 240 | 2000 |
| 2-Nitrophenol | | 380 | U | 23 | 380 |
| N-Nitrosodi-n-propylamine | | 380 | U | 33 | 380 |
| N-Nitrosodiphenylamine | | 380 | U | 27 | 380 |
| Pentachlorophenol | | 2000 | U | 97 | 2000 |
| Phenanthrene | | 380 | U | 34 | 380 |
| Phenol | | 380 | U | 35 | 380 |
| Pyrene | | 380 | U | 23 | 380 |
| 1,2,4-Trichlorobenzene | | 380 | U | 24 | 380 |
| 2,4,5-Trichlorophenol | | 380 | U | 37 | 380 |
| 2,4,6-Trichlorophenol | | 380 | U | 23 | 380 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 59 | 38 - 104 |
| 2-Fluorophenol | 59 | 36 - 101 |
| Nitrobenzene-d5 | 50 | 33 - 94 |
| Phenol-d5 | 56 | 38 - 102 |
| Terphenyl-d14 | 53 | 40 - 129 |
| 2,4,6-Tribromophenol | 62 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B2R**

Lab Sample ID: 680-20904-2
Client Matrix: Solid
% Moisture: 14.4
Date Sampled: 10/05/2006 0920
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 0930
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3924.d
Initial Weight/Volume: 30.04 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 380 | U | 22 | 380 |
| Acenaphthylene | | 380 | U | 20 | 380 |
| Anthracene | | 380 | U | 27 | 380 |
| Benzidine | | 3100 | U | 97 | 3100 |
| Benzo[a]anthracene | | 380 | U | 36 | 380 |
| Benzo[a]pyrene | | 380 | U | 22 | 380 |
| Benzo[b]fluoranthene | | 380 | U | 30 | 380 |
| Benzo[g,h,i]perylene | | 380 | U | 27 | 380 |
| Benzoic acid | | 2000 | U * | 200 | 2000 |
| Benzo[k]fluoranthene | | 380 | U | 42 | 380 |
| Benzyl alcohol | | 380 | U | 44 | 380 |
| Bis(2-chloroethoxy)methane | | 380 | U | 28 | 380 |
| Bis(2-chloroethyl)ether | | 380 | U | 33 | 380 |
| bis(chloroisopropyl) ether | | 380 | U | 41 | 380 |
| Bis(2-ethylhexyl) phthalate | | 46 | J | 44 | 380 |
| 4-Bromophenyl phenyl ether | | 380 | U | 36 | 380 |
| Butyl benzyl phthalate | | 380 | U | 31 | 380 |
| 4-Chloroaniline | | 770 | U | 30 | 770 |
| 4-Chloro-3-methylphenol | | 380 | U | 40 | 380 |
| 2-Chloronaphthalene | | 380 | U | 28 | 380 |
| 2-Chlorophenol | | 380 | U | 31 | 380 |
| 4-Chlorophenyl phenyl ether | | 380 | U | 22 | 380 |
| Chrysene | | 380 | U | 29 | 380 |
| Dibenz(a,h)anthracene | | 380 | U | 28 | 380 |
| Dibenzofuran | | 380 | U | 22 | 380 |
| 1,2-Dichlorobenzene | | 380 | U | 27 | 380 |
| 1,3-Dichlorobenzene | | 380 | U | 30 | 380 |
| 1,4-Dichlorobenzene | | 380 | U | 26 | 380 |
| 3,3'-Dichlorobenzidine | | 770 | U | 35 | 770 |
| 2,4-Dichlorophenol | | 380 | U | 27 | 380 |
| Diethyl phthalate | | 380 | U | 26 | 380 |
| 2,4-Dimethylphenol | | 380 | U | 41 | 380 |
| Dimethyl phthalate | | 380 | U | 22 | 380 |
| Di-n-butyl phthalate | | 380 | U | 33 | 380 |
| 4,6-Dinitro-o-cresol | | 2000 | U | 230 | 2000 |
| 2,4-Dinitrophenol | | 2000 | U | 200 | 2000 |
| 2,6-Dinitrotoluene | | 380 | U | 38 | 380 |
| 2,4-Dinitrotoluene | | 380 | U | 22 | 380 |
| Di-n-octyl phthalate | | 380 | U | 36 | 380 |
| Fluoranthene | | 380 | U | 30 | 380 |
| Fluorene | | 380 | U | 26 | 380 |
| Hexachlorobenzene | | 380 | U | 30 | 380 |
| Hexachlorobutadiene | | 380 | U | 23 | 380 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B2R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-2 | | | Date Sampled: | 10/05/2006 0920 |
| Client Matrix: | Solid | % Moisture: | 14.4 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3924.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.04 g |
| Date Analyzed: | 10/09/2006 0930 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 380 | U | 97 | 380 |
| Hexachloroethane | | 380 | U | 23 | 380 |
| Indeno[1,2,3-cd]pyrene | | 380 | U | 30 | 380 |
| Isophorone | | 380 | U | 26 | 380 |
| 2-Methylnaphthalene | | 380 | U | 28 | 380 |
| 2-Methylphenol | | 380 | U | 35 | 380 |
| 3 & 4 Methylphenol | | 380 | U | 34 | 380 |
| Naphthalene | | 380 | U | 22 | 380 |
| 3-Nitroaniline | | 2000 | U | 38 | 2000 |
| 2-Nitroaniline | | 2000 | U | 27 | 2000 |
| 4-Nitroaniline | | 2000 | U | 20 | 2000 |
| Nitrobenzene | | 380 | U | 41 | 380 |
| 4-Nitrophenol | | 2000 | U | 240 | 2000 |
| 2-Nitrophenol | | 380 | U | 23 | 380 |
| N-Nitrosodi-n-propylamine | | 380 | U | 33 | 380 |
| N-Nitrosodiphenylamine | | 380 | U | 27 | 380 |
| Pentachlorophenol | | 2000 | U | 97 | 2000 |
| Phenanthrene | | 380 | U | 34 | 380 |
| Phenol | | 380 | U | 35 | 380 |
| Pyrene | | 380 | U | 23 | 380 |
| 1,2,4-Trichlorobenzene | | 380 | U | 24 | 380 |
| 2,4,5-Trichlorophenol | | 380 | U | 37 | 380 |
| 2,4,6-Trichlorophenol | | 380 | U | 23 | 380 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 50 | 38 - 104 |
| 2-Fluorophenol | 47 | 36 - 101 |
| Nitrobenzene-d5 | 41 | 33 - 94 |
| Phenol-d5 | 47 | 38 - 102 |
| Terphenyl-d14 | 47 | 40 - 129 |
| 2,4,6-Tribromophenol | 56 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B3R**

Lab Sample ID: 680-20904-3
Client Matrix: Solid
% Moisture: 29.1
Date Sampled: 10/05/2006 0930
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1016
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3925.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 470 | U | 27 | 470 |
| Acenaphthylene | | 470 | U | 24 | 470 |
| Anthracene | | 470 | U | 32 | 470 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 470 | U | 44 | 470 |
| Benzo[a]pyrene | | 470 | U | 27 | 470 |
| Benzo[b]fluoranthene | | 470 | U | 37 | 470 |
| Benzo[g,h,i]perylene | | 470 | U | 32 | 470 |
| Benzoic acid | | 2400 | U * | 240 | 2400 |
| Benzo[k]fluoranthene | | 470 | U | 51 | 470 |
| Benzyl alcohol | | 470 | U | 54 | 470 |
| Bis(2-chloroethoxy)methane | | 470 | U | 34 | 470 |
| Bis(2-chloroethyl)ether | | 470 | U | 39 | 470 |
| bis(chloroisopropyl) ether | | 470 | U | 49 | 470 |
| Bis(2-ethylhexyl) phthalate | | 77 | J | 54 | 470 |
| 4-Bromophenyl phenyl ether | | 470 | U | 44 | 470 |
| Butyl benzyl phthalate | | 470 | U | 38 | 470 |
| 4-Chloroaniline | | 930 | U | 37 | 930 |
| 4-Chloro-3-methylphenol | | 470 | U | 48 | 470 |
| 2-Chloronaphthalene | | 470 | U | 34 | 470 |
| 2-Chlorophenol | | 470 | U | 38 | 470 |
| 4-Chlorophenyl phenyl ether | | 470 | U | 27 | 470 |
| Chrysene | | 470 | U | 35 | 470 |
| Dibenz(a,h)anthracene | | 470 | U | 34 | 470 |
| Dibenzofuran | | 470 | U | 27 | 470 |
| 1,2-Dichlorobenzene | | 470 | U | 32 | 470 |
| 1,3-Dichlorobenzene | | 470 | U | 37 | 470 |
| 1,4-Dichlorobenzene | | 470 | U | 31 | 470 |
| 3,3'-Dichlorobenzidine | | 930 | U | 42 | 930 |
| 2,4-Dichlorophenol | | 470 | U | 32 | 470 |
| Diethyl phthalate | | 470 | U | 31 | 470 |
| 2,4-Dimethylphenol | | 470 | U | 49 | 470 |
| Dimethyl phthalate | | 470 | U | 27 | 470 |
| Di-n-butyl phthalate | | 470 | U | 39 | 470 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 470 | U | 47 | 470 |
| 2,4-Dinitrotoluene | | 470 | U | 27 | 470 |
| Di-n-octyl phthalate | | 470 | U | 44 | 470 |
| Fluoranthene | | 470 | U | 37 | 470 |
| Fluorene | | 470 | U | 31 | 470 |
| Hexachlorobenzene | | 470 | U | 37 | 470 |
| Hexachlorobutadiene | | 470 | U | 28 | 470 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B3R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-3 | | | Date Sampled: | 10/05/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 29.1 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3925.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/09/2006 1016 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 470 | U | 120 | 470 |
| Hexachloroethane | | 470 | U | 28 | 470 |
| Indeno[1,2,3-cd]pyrene | | 470 | U | 37 | 470 |
| Isophorone | | 470 | U | 31 | 470 |
| 2-Methylnaphthalene | | 470 | U | 34 | 470 |
| 2-Methylphenol | | 470 | U | 42 | 470 |
| 3 & 4 Methylphenol | | 470 | U | 41 | 470 |
| Naphthalene | | 470 | U | 27 | 470 |
| 3-Nitroaniline | | 2400 | U | 47 | 2400 |
| 2-Nitroaniline | | 2400 | U | 32 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 470 | U | 49 | 470 |
| 4-Nitrophenol | | 2400 | U | 300 | 2400 |
| 2-Nitrophenol | | 470 | U | 28 | 470 |
| N-Nitrosodi-n-propylamine | | 470 | U | 39 | 470 |
| N-Nitrosodiphenylamine | | 470 | U | 32 | 470 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 470 | U | 41 | 470 |
| Phenol | | 470 | U | 42 | 470 |
| Pyrene | | 470 | U | 28 | 470 |
| 1,2,4-Trichlorobenzene | | 470 | U | 30 | 470 |
| 2,4,5-Trichlorophenol | | 470 | U | 45 | 470 |
| 2,4,6-Trichlorophenol | | 470 | U | 28 | 470 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 50 | 38 - 104 |
| 2-Fluorophenol | 48 | 36 - 101 |
| Nitrobenzene-d5 | 43 | 33 - 94 |
| Phenol-d5 | 45 | 38 - 102 |
| Terphenyl-d14 | 44 | 40 - 129 |
| 2,4,6-Tribromophenol | 54 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

Lab Sample ID: 680-20904-4
Client Matrix: Solid
% Moisture: 32.2
Date Sampled: 10/05/2006 0940
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1039
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3926.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 490 | U | 28 | 490 |
| Acenaphthylene | | 490 | U | 25 | 490 |
| Anthracene | | 490 | U | 34 | 490 |
| Benzidine | | 4000 | U | 120 | 4000 |
| Benzo[a]anthracene | | 490 | U | 46 | 490 |
| Benzo[a]pyrene | | 490 | U | 28 | 490 |
| Benzo[b]fluoranthene | | 490 | U | 38 | 490 |
| Benzo[g,h,i]perylene | | 490 | U | 34 | 490 |
| Benzoic acid | | 2500 | U * | 250 | 2500 |
| Benzo[k]fluoranthene | | 490 | U | 53 | 490 |
| Benzyl alcohol | | 490 | U | 56 | 490 |
| Bis(2-chloroethoxy)methane | | 490 | U | 35 | 490 |
| Bis(2-chloroethyl)ether | | 490 | U | 41 | 490 |
| bis(chloroisopropyl) ether | | 490 | U | 52 | 490 |
| Bis(2-ethylhexyl) phthalate | | 100 | J | 56 | 490 |
| 4-Bromophenyl phenyl ether | | 490 | U | 46 | 490 |
| Butyl benzyl phthalate | | 490 | U | 40 | 490 |
| 4-Chloroaniline | | 970 | U | 38 | 970 |
| 4-Chloro-3-methylphenol | | 490 | U | 50 | 490 |
| 2-Chloronaphthalene | | 490 | U | 35 | 490 |
| 2-Chlorophenol | | 490 | U | 40 | 490 |
| 4-Chlorophenyl phenyl ether | | 490 | U | 28 | 490 |
| Chrysene | | 490 | U | 37 | 490 |
| Dibenz(a,h)anthracene | | 490 | U | 35 | 490 |
| Dibenzofuran | | 490 | U | 28 | 490 |
| 1,2-Dichlorobenzene | | 490 | U | 34 | 490 |
| 1,3-Dichlorobenzene | | 490 | U | 38 | 490 |
| 1,4-Dichlorobenzene | | 490 | U | 32 | 490 |
| 3,3'-Dichlorobenzidine | | 970 | U | 44 | 970 |
| 2,4-Dichlorophenol | | 490 | U | 34 | 490 |
| Diethyl phthalate | | 490 | U | 32 | 490 |
| 2,4-Dimethylphenol | | 490 | U | 52 | 490 |
| Dimethyl phthalate | | 490 | U | 28 | 490 |
| Di-n-butyl phthalate | | 490 | U | 41 | 490 |
| 4,6-Dinitro-o-cresol | | 2500 | U | 300 | 2500 |
| 2,4-Dinitrophenol | | 2500 | U | 250 | 2500 |
| 2,6-Dinitrotoluene | | 490 | U | 49 | 490 |
| 2,4-Dinitrotoluene | | 490 | U | 28 | 490 |
| Di-n-octyl phthalate | | 490 | U | 46 | 490 |
| Fluoranthene | | 490 | U | 38 | 490 |
| Fluorene | | 490 | U | 32 | 490 |
| Hexachlorobenzene | | 490 | U | 38 | 490 |
| Hexachlorobutadiene | | 490 | U | 30 | 490 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-4 | | | Date Sampled: | 10/05/2006 0940 |
| Client Matrix: | Solid | % Moisture: | 32.2 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3926.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/09/2006 1039 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 490 | U | 120 | 490 |
| Hexachloroethane | | 490 | U | 30 | 490 |
| Indeno[1,2,3-cd]pyrene | | 490 | U | 38 | 490 |
| Isophorone | | 490 | U | 32 | 490 |
| 2-Methylnaphthalene | | 490 | U | 35 | 490 |
| 2-Methylphenol | | 490 | U | 44 | 490 |
| 3 & 4 Methylphenol | | 490 | U | 43 | 490 |
| Naphthalene | | 490 | U | 28 | 490 |
| 3-Nitroaniline | | 2500 | U | 49 | 2500 |
| 2-Nitroaniline | | 2500 | U | 34 | 2500 |
| 4-Nitroaniline | | 2500 | U | 25 | 2500 |
| Nitrobenzene | | 490 | U | 52 | 490 |
| 4-Nitrophenol | | 2500 | U | 310 | 2500 |
| 2-Nitrophenol | | 490 | U | 30 | 490 |
| N-Nitrosodi-n-propylamine | | 490 | U | 41 | 490 |
| N-Nitrosodiphenylamine | | 490 | U | 34 | 490 |
| Pentachlorophenol | | 2500 | U | 120 | 2500 |
| Phenanthrene | | 490 | U | 43 | 490 |
| Phenol | | 490 | U | 44 | 490 |
| Pyrene | | 44 | J | 30 | 490 |
| 1,2,4-Trichlorobenzene | | 490 | U | 31 | 490 |
| 2,4,5-Trichlorophenol | | 490 | U | 47 | 490 |
| 2,4,6-Trichlorophenol | | 490 | U | 30 | 490 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 54 | 38 - 104 |
| 2-Fluorophenol | 50 | 36 - 101 |
| Nitrobenzene-d5 | 46 | 33 - 94 |
| Phenol-d5 | 47 | 38 - 102 |
| Terphenyl-d14 | 45 | 40 - 129 |
| 2,4,6-Tribromophenol | 56 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid
% Moisture: 34.4
Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1103
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3927.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 500 | U | 29 | 500 |
| Acenaphthylene | | 500 | U | 26 | 500 |
| Anthracene | | 500 | U | 35 | 500 |
| Benzidine | | 4100 | U | 130 | 4100 |
| Benzo[a]anthracene | | 500 | U | 47 | 500 |
| Benzo[a]pyrene | | 500 | U | 29 | 500 |
| Benzo[b]fluoranthene | | 500 | U | 40 | 500 |
| Benzo[g,h,i]perylene | | 500 | U | 35 | 500 |
| Benzoic acid | | 2600 | U * | 260 | 2600 |
| Benzo[k]fluoranthene | | 500 | U | 55 | 500 |
| Benzyl alcohol | | 500 | U | 58 | 500 |
| Bis(2-chloroethoxy)methane | | 500 | U | 36 | 500 |
| Bis(2-chloroethyl)ether | | 500 | U | 43 | 500 |
| bis(chloroisopropyl) ether | | 500 | U | 53 | 500 |
| Bis(2-ethylhexyl) phthalate | | 500 | U | 58 | 500 |
| 4-Bromophenyl phenyl ether | | 500 | U | 47 | 500 |
| Butyl benzyl phthalate | | 500 | U | 41 | 500 |
| 4-Chloroaniline | | 1000 | U | 40 | 1000 |
| 4-Chloro-3-methylphenol | | 500 | U | 52 | 500 |
| 2-Chloronaphthalene | | 500 | U | 36 | 500 |
| 2-Chlorophenol | | 500 | U | 41 | 500 |
| 4-Chlorophenyl phenyl ether | | 500 | U | 29 | 500 |
| Chrysene | | 500 | U | 38 | 500 |
| Dibenz(a,h)anthracene | | 500 | U | 36 | 500 |
| Dibenzofuran | | 500 | U | 29 | 500 |
| 1,2-Dichlorobenzene | | 500 | U | 35 | 500 |
| 1,3-Dichlorobenzene | | 500 | U | 40 | 500 |
| 1,4-Dichlorobenzene | | 500 | U | 33 | 500 |
| 3,3'-Dichlorobenzidine | | 1000 | U | 46 | 1000 |
| 2,4-Dichlorophenol | | 500 | U | 35 | 500 |
| Diethyl phthalate | | 500 | U | 33 | 500 |
| 2,4-Dimethylphenol | | 500 | U | 53 | 500 |
| Dimethyl phthalate | | 500 | U | 29 | 500 |
| Di-n-butyl phthalate | | 500 | U | 43 | 500 |
| 4,6-Dinitro-o-cresol | | 2600 | U | 300 | 2600 |
| 2,4-Dinitrophenol | | 2600 | U | 260 | 2600 |
| 2,6-Dinitrotoluene | | 500 | U | 50 | 500 |
| 2,4-Dinitrotoluene | | 500 | U | 29 | 500 |
| Di-n-octyl phthalate | | 500 | U | 47 | 500 |
| Fluoranthene | | 500 | U | 40 | 500 |
| Fluorene | | 170 | J | 33 | 500 |
| Hexachlorobenzene | | 500 | U | 40 | 500 |
| Hexachlorobutadiene | | 500 | U | 30 | 500 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-6 | | | Date Sampled: | 10/05/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 34.4 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3927.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.09 g |
| Date Analyzed: | 10/09/2006 1103 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 500 | U | 130 | 500 |
| Hexachloroethane | | 500 | U | 30 | 500 |
| Indeno[1,2,3-cd]pyrene | | 500 | U | 40 | 500 |
| Isophorone | | 500 | U | 33 | 500 |
| 2-Methylnaphthalene | | 500 | U | 36 | 500 |
| 2-Methylphenol | | 500 | U | 46 | 500 |
| 3 & 4 Methylphenol | | 500 | U | 44 | 500 |
| Naphthalene | | 500 | U | 29 | 500 |
| 3-Nitroaniline | | 2600 | U | 50 | 2600 |
| 2-Nitroaniline | | 2600 | U | 35 | 2600 |
| 4-Nitroaniline | | 2600 | U | 26 | 2600 |
| Nitrobenzene | | 500 | U | 53 | 500 |
| 4-Nitrophenol | | 2600 | U | 320 | 2600 |
| 2-Nitrophenol | | 500 | U | 30 | 500 |
| N-Nitrosodi-n-propylamine | | 500 | U | 43 | 500 |
| N-Nitrosodiphenylamine | | 500 | U | 35 | 500 |
| Pentachlorophenol | | 2600 | U | 130 | 2600 |
| Phenanthrene | | 500 | U | 44 | 500 |
| Phenol | | 500 | U | 46 | 500 |
| Pyrene | | 500 | U | 30 | 500 |
| 1,2,4-Trichlorobenzene | | 500 | U | 32 | 500 |
| 2,4,5-Trichlorophenol | | 500 | U | 49 | 500 |
| 2,4,6-Trichlorophenol | | 500 | U | 30 | 500 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 43 | 38 - 104 |
| 2-Fluorophenol | 47 | 36 - 101 |
| Nitrobenzene-d5 | 82 | 33 - 94 |
| Phenol-d5 | 40 | 38 - 102 |
| Terphenyl-d14 | 40 | 40 - 129 |
| 2,4,6-Tribromophenol | 53 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

Lab Sample ID: 680-20904-7
Client Matrix: Solid
% Moisture: 28.9
Date Sampled: 10/05/2006 1115
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1125
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3928.d
Initial Weight/Volume: 30.10 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 460 | U | 27 | 460 |
| Acenaphthylene | | 460 | U | 24 | 460 |
| Anthracene | | 460 | U | 32 | 460 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 460 | U | 43 | 460 |
| Benzo[a]pyrene | | 460 | U | 27 | 460 |
| Benzo[b]fluoranthene | | 460 | U | 36 | 460 |
| Benzo[g,h,i]perylene | | 460 | U | 32 | 460 |
| Benzoic acid | | 2400 | U * | 240 | 2400 |
| Benzo[k]fluoranthene | | 460 | U | 50 | 460 |
| Benzyl alcohol | | 460 | U | 53 | 460 |
| Bis(2-chloroethoxy)methane | | 460 | U | 34 | 460 |
| Bis(2-chloroethyl)ether | | 460 | U | 39 | 460 |
| bis(chloroisopropyl) ether | | 460 | U | 49 | 460 |
| Bis(2-ethylhexyl) phthalate | | 460 | U | 53 | 460 |
| 4-Bromophenyl phenyl ether | | 460 | U | 43 | 460 |
| Butyl benzyl phthalate | | 460 | U | 38 | 460 |
| 4-Chloroaniline | | 930 | U | 36 | 930 |
| 4-Chloro-3-methylphenol | | 460 | U | 48 | 460 |
| 2-Chloronaphthalene | | 460 | U | 34 | 460 |
| 2-Chlorophenol | | 460 | U | 38 | 460 |
| 4-Chlorophenyl phenyl ether | | 460 | U | 27 | 460 |
| Chrysene | | 460 | U | 35 | 460 |
| Dibenz(a,h)anthracene | | 460 | U | 34 | 460 |
| Dibenzofuran | | 460 | U | 27 | 460 |
| 1,2-Dichlorobenzene | | 460 | U | 32 | 460 |
| 1,3-Dichlorobenzene | | 460 | U | 36 | 460 |
| 1,4-Dichlorobenzene | | 460 | U | 31 | 460 |
| 3,3'-Dichlorobenzidine | | 930 | U | 42 | 930 |
| 2,4-Dichlorophenol | | 460 | U | 32 | 460 |
| Diethyl phthalate | | 460 | U | 31 | 460 |
| 2,4-Dimethylphenol | | 460 | U | 49 | 460 |
| Dimethyl phthalate | | 460 | U | 27 | 460 |
| Di-n-butyl phthalate | | 460 | U | 39 | 460 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 460 | U | 46 | 460 |
| 2,4-Dinitrotoluene | | 460 | U | 27 | 460 |
| Di-n-octyl phthalate | | 460 | U | 43 | 460 |
| Fluoranthene | | 460 | U | 36 | 460 |
| Fluorene | | 460 | U | 31 | 460 |
| Hexachlorobenzene | | 460 | U | 36 | 460 |
| Hexachlorobutadiene | | 460 | U | 28 | 460 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-7 | | | Date Sampled: | 10/05/2006 1115 |
| Client Matrix: | Solid | % Moisture: | 28.9 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3928.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.10 g |
| Date Analyzed: | 10/09/2006 1125 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 460 | U | 120 | 460 |
| Hexachloroethane | | 460 | U | 28 | 460 |
| Indeno[1,2,3-cd]pyrene | | 460 | U | 36 | 460 |
| Isophorone | | 460 | U | 31 | 460 |
| 2-Methylnaphthalene | | 460 | U | 34 | 460 |
| 2-Methylphenol | | 460 | U | 42 | 460 |
| 3 & 4 Methylphenol | | 460 | U | 41 | 460 |
| Naphthalene | | 460 | U | 27 | 460 |
| 3-Nitroaniline | | 2400 | U | 46 | 2400 |
| 2-Nitroaniline | | 2400 | U | 32 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 460 | U | 49 | 460 |
| 4-Nitrophenol | | 2400 | U | 290 | 2400 |
| 2-Nitrophenol | | 460 | U | 28 | 460 |
| N-Nitrosodi-n-propylamine | | 460 | U | 39 | 460 |
| N-Nitrosodiphenylamine | | 460 | U | 32 | 460 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 460 | U | 41 | 460 |
| Phenol | | 460 | U | 42 | 460 |
| Pyrene | | 460 | U | 28 | 460 |
| 1,2,4-Trichlorobenzene | | 460 | U | 29 | 460 |
| 2,4,5-Trichlorophenol | | 460 | U | 45 | 460 |
| 2,4,6-Trichlorophenol | | 460 | U | 28 | 460 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 49 | 38 - 104 |
| 2-Fluorophenol | 48 | 36 - 101 |
| Nitrobenzene-d5 | 41 | 33 - 94 |
| Phenol-d5 | 46 | 38 - 102 |
| Terphenyl-d14 | 46 | 40 - 129 |
| 2,4,6-Tribromophenol | 52 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

Lab Sample ID: 680-20904-8
Client Matrix: Solid
% Moisture: 29.8
Date Sampled: 10/05/2006 1130
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1625
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56877
Prep Batch: 680-56906

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3941.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 470 | U | 27 | 470 |
| Acenaphthylene | | 470 | U | 24 | 470 |
| Anthracene | | 470 | U | 33 | 470 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 470 | U | 44 | 470 |
| Benzo[a]pyrene | | 470 | U | 27 | 470 |
| Benzo[b]fluoranthene | | 470 | U | 37 | 470 |
| Benzo[g,h,i]perylene | | 470 | U | 33 | 470 |
| Benzoic acid | | 2400 | U | 240 | 2400 |
| Benzo[k]fluoranthene | | 470 | U | 51 | 470 |
| Benzyl alcohol | | 470 | U | 54 | 470 |
| Bis(2-chloroethoxy)methane | | 470 | U | 34 | 470 |
| Bis(2-chloroethyl)ether | | 470 | U | 40 | 470 |
| bis(chloroisopropyl) ether | | 470 | U | 50 | 470 |
| Bis(2-ethylhexyl) phthalate | | 470 | U | 54 | 470 |
| 4-Bromophenyl phenyl ether | | 470 | U | 44 | 470 |
| Butyl benzyl phthalate | | 470 | U | 38 | 470 |
| 4-Chloroaniline | | 940 | U | 37 | 940 |
| 4-Chloro-3-methylphenol | | 470 | U | 48 | 470 |
| 2-Chloronaphthalene | | 470 | U | 34 | 470 |
| 2-Chlorophenol | | 470 | U | 38 | 470 |
| 4-Chlorophenyl phenyl ether | | 470 | U | 27 | 470 |
| Chrysene | | 470 | U | 36 | 470 |
| Dibenz(a,h)anthracene | | 470 | U | 34 | 470 |
| Dibenzofuran | | 470 | U | 27 | 470 |
| 1,2-Dichlorobenzene | | 470 | U | 33 | 470 |
| 1,3-Dichlorobenzene | | 470 | U | 37 | 470 |
| 1,4-Dichlorobenzene | | 470 | U | 31 | 470 |
| 3,3'-Dichlorobenzidine | | 940 | U | 43 | 940 |
| 2,4-Dichlorophenol | | 470 | U | 33 | 470 |
| Diethyl phthalate | | 470 | U | 31 | 470 |
| 2,4-Dimethylphenol | | 470 | U | 50 | 470 |
| Dimethyl phthalate | | 470 | U | 27 | 470 |
| Di-n-butyl phthalate | | 470 | U | 40 | 470 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 470 | U | 47 | 470 |
| 2,4-Dinitrotoluene | | 470 | U | 27 | 470 |
| Di-n-octyl phthalate | | 470 | U | 44 | 470 |
| Fluoranthene | | 470 | U | 37 | 470 |
| Fluorene | | 470 | U | 31 | 470 |
| Hexachlorobenzene | | 470 | U | 37 | 470 |
| Hexachlorobutadiene | | 470 | U | 28 | 470 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-8 | | | Date Sampled: | 10/05/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 29.8 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56906 | | Lab File ID: | e3941.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/09/2006 1625 | | | Final Weight/Volume: | 1 mL |
| Date Prepared: | 10/09/2006 1420 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 470 | U | 120 | 470 |
| Hexachloroethane | | 470 | U | 28 | 470 |
| Indeno[1,2,3-cd]pyrene | | 470 | U | 37 | 470 |
| Isophorone | | 470 | U | 31 | 470 |
| 2-Methylnaphthalene | | 470 | U | 34 | 470 |
| 2-Methylphenol | | 470 | U | 43 | 470 |
| 3 & 4 Methylphenol | | 470 | U | 41 | 470 |
| Naphthalene | | 470 | U | 27 | 470 |
| 3-Nitroaniline | | 2400 | U | 47 | 2400 |
| 2-Nitroaniline | | 2400 | U | 33 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 470 | U | 50 | 470 |
| 4-Nitrophenol | | 2400 | U | 300 | 2400 |
| 2-Nitrophenol | | 470 | U | 28 | 470 |
| N-Nitrosodi-n-propylamine | | 470 | U | 40 | 470 |
| N-Nitrosodiphenylamine | | 470 | U | 33 | 470 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 470 | U | 41 | 470 |
| Phenol | | 470 | U | 43 | 470 |
| Pyrene | | 470 | U | 28 | 470 |
| 1,2,4-Trichlorobenzene | | 470 | U | 30 | 470 |
| 2,4,5-Trichlorophenol | | 470 | U | 46 | 470 |
| 2,4,6-Trichlorophenol | | 470 | U | 28 | 470 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 67 | 38 - 104 |
| 2-Fluorophenol | 74 | 36 - 101 |
| Nitrobenzene-d5 | 59 | 33 - 94 |
| Phenol-d5 | 70 | 38 - 102 |
| Terphenyl-d14 | 61 | 40 - 129 |
| 2,4,6-Tribromophenol | 80 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW24**

Lab Sample ID: 680-20904-9
Client Matrix: Solid
% Moisture: 27.1
Date Sampled: 10/05/2006 1145
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1602
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56877
Prep Batch: 680-56906

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3940.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 450 | U | 26 | 450 |
| Acenaphthylene | | 450 | U | 23 | 450 |
| Anthracene | | 450 | U | 32 | 450 |
| Benzidine | | 3700 | U | 110 | 3700 |
| Benzo[a]anthracene | | 450 | U | 43 | 450 |
| Benzo[a]pyrene | | 450 | U | 26 | 450 |
| Benzo[b]fluoranthene | | 450 | U | 36 | 450 |
| Benzo[g,h,i]perylene | | 450 | U | 32 | 450 |
| Benzoic acid | | 2300 | U | 230 | 2300 |
| Benzo[k]fluoranthene | | 450 | U | 49 | 450 |
| Benzyl alcohol | | 450 | U | 52 | 450 |
| Bis(2-chloroethoxy)methane | | 450 | U | 33 | 450 |
| Bis(2-chloroethyl)ether | | 450 | U | 38 | 450 |
| bis(chloroisopropyl) ether | | 450 | U | 48 | 450 |
| Bis(2-ethylhexyl) phthalate | | 450 | U | 52 | 450 |
| 4-Bromophenyl phenyl ether | | 450 | U | 43 | 450 |
| Butyl benzyl phthalate | | 450 | U | 37 | 450 |
| 4-Chloroaniline | | 910 | U | 36 | 910 |
| 4-Chloro-3-methylphenol | | 450 | U | 47 | 450 |
| 2-Chloronaphthalene | | 450 | U | 33 | 450 |
| 2-Chlorophenol | | 450 | U | 37 | 450 |
| 4-Chlorophenyl phenyl ether | | 450 | U | 26 | 450 |
| Chrysene | | 450 | U | 34 | 450 |
| Dibenz(a,h)anthracene | | 450 | U | 33 | 450 |
| Dibenzofuran | | 450 | U | 26 | 450 |
| 1,2-Dichlorobenzene | | 450 | U | 32 | 450 |
| 1,3-Dichlorobenzene | | 450 | U | 36 | 450 |
| 1,4-Dichlorobenzene | | 450 | U | 30 | 450 |
| 3,3'-Dichlorobenzidine | | 910 | U | 41 | 910 |
| 2,4-Dichlorophenol | | 450 | U | 32 | 450 |
| Diethyl phthalate | | 450 | U | 30 | 450 |
| 2,4-Dimethylphenol | | 450 | U | 48 | 450 |
| Dimethyl phthalate | | 450 | U | 26 | 450 |
| Di-n-butyl phthalate | | 450 | U | 38 | 450 |
| 4,6-Dinitro-o-cresol | | 2300 | U | 270 | 2300 |
| 2,4-Dinitrophenol | | 2300 | U | 230 | 2300 |
| 2,6-Dinitrotoluene | | 450 | U | 45 | 450 |
| 2,4-Dinitrotoluene | | 450 | U | 26 | 450 |
| Di-n-octyl phthalate | | 450 | U | 43 | 450 |
| Fluoranthene | | 450 | U | 36 | 450 |
| Fluorene | | 450 | U | 30 | 450 |
| Hexachlorobenzene | | 450 | U | 36 | 450 |
| Hexachlorobutadiene | | 450 | U | 27 | 450 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW24**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-9 | | | Date Sampled: | 10/05/2006 1145 |
| Client Matrix: | Solid | % Moisture: | 27.1 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56906 | | Lab File ID: | e3940.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/09/2006 1602 | | | Final Weight/Volume: | 1 mL |
| Date Prepared: | 10/09/2006 1420 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 450 | U | 110 | 450 |
| Hexachloroethane | | 450 | U | 27 | 450 |
| Indeno[1,2,3-cd]pyrene | | 450 | U | 36 | 450 |
| Isophorone | | 450 | U | 30 | 450 |
| 2-Methylnaphthalene | | 450 | U | 33 | 450 |
| 2-Methylphenol | | 450 | U | 41 | 450 |
| 3 & 4 Methylphenol | | 450 | U | 40 | 450 |
| Naphthalene | | 450 | U | 26 | 450 |
| 3-Nitroaniline | | 2300 | U | 45 | 2300 |
| 2-Nitroaniline | | 2300 | U | 32 | 2300 |
| 4-Nitroaniline | | 2300 | U | 23 | 2300 |
| Nitrobenzene | | 450 | U | 48 | 450 |
| 4-Nitrophenol | | 2300 | U | 290 | 2300 |
| 2-Nitrophenol | | 450 | U | 27 | 450 |
| N-Nitrosodi-n-propylamine | | 450 | U | 38 | 450 |
| N-Nitrosodiphenylamine | | 450 | U | 32 | 450 |
| Pentachlorophenol | | 2300 | U | 110 | 2300 |
| Phenanthrene | | 450 | U | 40 | 450 |
| Phenol | | 450 | U | 41 | 450 |
| Pyrene | | 450 | U | 27 | 450 |
| 1,2,4-Trichlorobenzene | | 450 | U | 29 | 450 |
| 2,4,5-Trichlorophenol | | 450 | U | 44 | 450 |
| 2,4,6-Trichlorophenol | | 450 | U | 27 | 450 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 69 | 38 - 104 |
| 2-Fluorophenol | 71 | 36 - 101 |
| Nitrobenzene-d5 | 62 | 33 - 94 |
| Phenol-d5 | 68 | 38 - 102 |
| Terphenyl-d14 | 62 | 40 - 129 |
| 2,4,6-Tribromophenol | 74 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

Lab Sample ID: 680-20904-11
Client Matrix: Solid
% Moisture: 27.7
Date Sampled: 10/05/2006 1330
Date Received: 10/06/2006 0847

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/09/2006 1234
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3931.d
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 450 | U | 26 | 450 |
| Acenaphthylene | | 450 | U | 23 | 450 |
| Anthracene | | 450 | U | 32 | 450 |
| Benzidine | | 3700 | U | 110 | 3700 |
| Benzo[a]anthracene | | 450 | U | 43 | 450 |
| Benzo[a]pyrene | | 450 | U | 26 | 450 |
| Benzo[b]fluoranthene | | 450 | U | 36 | 450 |
| Benzo[g,h,i]perylene | | 450 | U | 32 | 450 |
| Benzoic acid | | 2300 | U * | 230 | 2300 |
| Benzo[k]fluoranthene | | 450 | U | 50 | 450 |
| Benzyl alcohol | | 450 | U | 52 | 450 |
| Bis(2-chloroethoxy)methane | | 450 | U | 33 | 450 |
| Bis(2-chloroethyl)ether | | 450 | U | 39 | 450 |
| bis(chloroisopropyl) ether | | 450 | U | 48 | 450 |
| Bis(2-ethylhexyl) phthalate | | 450 | U | 52 | 450 |
| 4-Bromophenyl phenyl ether | | 450 | U | 43 | 450 |
| Butyl benzyl phthalate | | 450 | U | 37 | 450 |
| 4-Chloroaniline | | 910 | U | 36 | 910 |
| 4-Chloro-3-methylphenol | | 450 | U | 47 | 450 |
| 2-Chloronaphthalene | | 450 | U | 33 | 450 |
| 2-Chlorophenol | | 450 | U | 37 | 450 |
| 4-Chlorophenyl phenyl ether | | 450 | U | 26 | 450 |
| Chrysene | | 450 | U | 34 | 450 |
| Dibenz(a,h)anthracene | | 450 | U | 33 | 450 |
| Dibenzofuran | | 450 | U | 26 | 450 |
| 1,2-Dichlorobenzene | | 450 | U | 32 | 450 |
| 1,3-Dichlorobenzene | | 450 | U | 36 | 450 |
| 1,4-Dichlorobenzene | | 450 | U | 30 | 450 |
| 3,3'-Dichlorobenzidine | | 910 | U | 41 | 910 |
| 2,4-Dichlorophenol | | 450 | U | 32 | 450 |
| Diethyl phthalate | | 450 | U | 30 | 450 |
| 2,4-Dimethylphenol | | 450 | U | 48 | 450 |
| Dimethyl phthalate | | 450 | U | 26 | 450 |
| Di-n-butyl phthalate | | 450 | U | 39 | 450 |
| 4,6-Dinitro-o-cresol | | 2300 | U | 280 | 2300 |
| 2,4-Dinitrophenol | | 2300 | U | 230 | 2300 |
| 2,6-Dinitrotoluene | | 450 | U | 45 | 450 |
| 2,4-Dinitrotoluene | | 450 | U | 26 | 450 |
| Di-n-octyl phthalate | | 450 | U | 43 | 450 |
| Fluoranthene | | 450 | U | 36 | 450 |
| Fluorene | | 450 | U | 30 | 450 |
| Hexachlorobenzene | | 450 | U | 36 | 450 |
| Hexachlorobutadiene | | 450 | U | 28 | 450 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-11 | | | Date Sampled: | 10/05/2006 1330 |
| Client Matrix: | Solid | % Moisture: | 27.7 | Date Received: | 10/06/2006 0847 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-56877 | | Instrument ID: | GC/MS SemiVolatiles - E |
| Preparation: | 3550B | Prep Batch: 680-56736 | | Lab File ID: | e3931.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.15 g |
| Date Analyzed: | 10/09/2006 1234 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 450 | U | 110 | 450 |
| Hexachloroethane | | 450 | U | 28 | 450 |
| Indeno[1,2,3-cd]pyrene | | 450 | U | 36 | 450 |
| Isophorone | | 450 | U | 30 | 450 |
| 2-Methylnaphthalene | | 450 | U | 33 | 450 |
| 2-Methylphenol | | 450 | U | 41 | 450 |
| 3 & 4 Methylphenol | | 450 | U | 40 | 450 |
| Naphthalene | | 450 | U | 26 | 450 |
| 3-Nitroaniline | | 2300 | U | 45 | 2300 |
| 2-Nitroaniline | | 2300 | U | 32 | 2300 |
| 4-Nitroaniline | | 2300 | U | 23 | 2300 |
| Nitrobenzene | | 450 | U | 48 | 450 |
| 4-Nitrophenol | | 2300 | U | 290 | 2300 |
| 2-Nitrophenol | | 450 | U | 28 | 450 |
| N-Nitrosodi-n-propylamine | | 450 | U | 39 | 450 |
| N-Nitrosodiphenylamine | | 450 | U | 32 | 450 |
| Pentachlorophenol | | 2300 | U | 110 | 2300 |
| Phenanthrene | | 450 | U | 40 | 450 |
| Phenol | | 450 | U | 41 | 450 |
| Pyrene | | 450 | U | 28 | 450 |
| 1,2,4-Trichlorobenzene | | 450 | U | 29 | 450 |
| 2,4,5-Trichlorophenol | | 450 | U | 44 | 450 |
| 2,4,6-Trichlorophenol | | 450 | U | 28 | 450 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 39 | 38 - 104 |
| 2-Fluorophenol | 46 | 36 - 101 |
| Nitrobenzene-d5 | 51 | 33 - 94 |
| Phenol-d5 | 41 | 38 - 102 |
| Terphenyl-d14 | 43 | 40 - 129 |
| 2,4,6-Tribromophenol | 47 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-1 | | | Date Sampled: | 10/05/2006 0910 |
| Client Matrix: | Solid | % Moisture: | 14.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A7.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.1 g |
| Date Analyzed: | 10/09/2006 1155 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.29 | U | 0.094 | 0.29 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 94 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID: FLSS17-L13-B2R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-2 | | | Date Sampled: | 10/05/2006 0920 |
| Client Matrix: | Solid | % Moisture: | 14.4 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A8.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.7 g |
| Date Analyzed: | 10/09/2006 1234 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.31 | U | 0.10 | 0.31 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 88 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B3R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-3 | | | Date Sampled: | 10/05/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 29.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A9.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.8 g |
| Date Analyzed: | 10/09/2006 1312 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.37 | U | 0.12 | 0.37 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 92 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-4 | | | Date Sampled: | 10/05/2006 0940 |
| Client Matrix: | Solid | % Moisture: | 32.2 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A10.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.7 g |
| Date Analyzed: | 10/09/2006 1350 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.55 | | 0.13 | 0.39 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 81 | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid
% Moisture: 34.4
Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

Method: 8015B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/10/2006 1003
Date Prepared: 10/06/2006 1212

Analysis Batch: 680-56982
Prep Batch: 680-56790

Instrument ID: GC Volatiles - A
Lab File ID: PC09A34.d
Initial Weight/Volume: 4.3 g
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 1000 | | 73 | 220 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 131 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-7 | | | Date Sampled: | 10/05/2006 1115 |
| Client Matrix: | Solid | % Moisture: | 28.9 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A13.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 6.0 g |
| Date Analyzed: | 10/09/2006 1545 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.44 | | 0.096 | 0.29 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 79 | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-8 | | | Date Sampled: | 10/05/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 29.8 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56930 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A14.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.4 g |
| Date Analyzed: | 10/09/2006 1624 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 34 | | 2.2 | 6.6 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 101 | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW24**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-9 | | | Date Sampled: | 10/05/2006 1145 |
| Client Matrix: | Solid | % Moisture: | 27.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56899 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A12.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.3 g |
| Date Analyzed: | 10/09/2006 1507 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.14 | J | 0.11 | 0.32 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 76 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-11 | | | Date Sampled: | 10/05/2006 1330 |
| Client Matrix: | Solid | % Moisture: | 27.7 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56930 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-56790 | | Lab File ID: | PC09A16.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.8 g |
| Date Analyzed: | 10/09/2006 1741 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/06/2006 1212 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 85 | | 2.4 | 7.2 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 99 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B1R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-1 | | | Date Sampled: | 10/05/2006 0910 |
| Client Matrix: | Solid | % Moisture: | 14.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090013.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.02 g |
| Date Analyzed: | 10/09/2006 1304 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 120 | | 2.0 | 3.8 |
| Oil Range Organics (C20-C36) | | 230 | | 9.9 | 20 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 86 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B2R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-2 | | | Date Sampled: | 10/05/2006 0920 |
| Client Matrix: | Solid | % Moisture: | 14.4 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090015.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.05 g |
| Date Analyzed: | 10/09/2006 1340 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 78 | | 2.0 | 3.8 |
| Oil Range Organics (C20-C36) | | 160 | | 9.9 | 20 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 54 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID: FLSS17-L13-B3R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-3 | | | Date Sampled: | 10/05/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 29.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090010.d |
| Dilution: | 2.0 | | | Initial Weight/Volume: | 30.13 g |
| Date Analyzed: | 10/09/2006 1211 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 150 | | 4.8 | 9.3 |
| Oil Range Organics (C20-C36) | | 300 | | 24 | 48 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 69 | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **FLSS17-L13-B4R**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-4 | | | Date Sampled: | 10/05/2006 0940 |
| Client Matrix: | Solid | % Moisture: | 32.2 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090011.d |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 30.04 g |
| Date Analyzed: | 10/09/2006 1229 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 410 | | 10 | 19 |
| Oil Range Organics (C20-C36) | | 820 | | 50 | 100 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 0 | D | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW20**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-6 | | | Date Sampled: | 10/05/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 34.4 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090012.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.04 g |
| Date Analyzed: | 10/09/2006 1246 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 3900 | | 26 | 50 |
| Oil Range Organics (C20-C36) | | 260 | U | 130 | 260 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 0 | D | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW21**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-7 | | | Date Sampled: | 10/05/2006 1115 |
| Client Matrix: | Solid | % Moisture: | 28.9 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090016.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.01 g |
| Date Analyzed: | 10/09/2006 1358 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.5 | J | 2.4 | 4.6 |
| Oil Range Organics (C20-C36) | | 24 | U | 12 | 24 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 61 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-SW22**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-8 | | | Date Sampled: | 10/05/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 29.8 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090017.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.02 g |
| Date Analyzed: | 10/09/2006 1416 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 340 | | 2.4 | 4.7 |
| Oil Range Organics (C20-C36) | | 24 | U | 12 | 24 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 55 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID: WPOL-SW24**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-9 | | | Date Sampled: | 10/05/2006 1145 |
| Client Matrix: | Solid | % Moisture: | 27.1 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090018.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.01 g |
| Date Analyzed: | 10/09/2006 1433 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2.8 | J | 2.3 | 4.5 |
| Oil Range Organics (C20-C36) | | 23 | U | 12 | 23 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 71 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Client Sample ID:** **WPOL-Stockpile**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-20904-11 | | | Date Sampled: | 10/05/2006 1330 |
| Client Matrix: | Solid | % Moisture: | 27.7 | Date Received: | 10/06/2006 0847 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-56923 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-56754 | | Lab File ID: | q0090019.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/09/2006 1451 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0939 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 260 | | 2.4 | 4.6 |
| Oil Range Organics (C20-C36) | | 24 | U | 12 | 24 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 54 | 15 - 154 |

**General Chemistry**

**Client Sample ID: FLSS17-L13-B1R**

Lab Sample ID: 680-20904-1
Client Matrix: Solid

Date Sampled: 10/05/2006 0910
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 14 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 86 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: FLSS17-L13-B2R**

Lab Sample ID: 680-20904-2
Client Matrix: Solid

Date Sampled: 10/05/2006 0920
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 14 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 86 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: FLSS17-L13-B3R**

Lab Sample ID: 680-20904-3
Client Matrix: Solid

Date Sampled: 10/05/2006 0930
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 29 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 71 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**General Chemistry**

**Client Sample ID: FLSS17-L13-B4R**

Lab Sample ID: 680-20904-4
Client Matrix: Solid

Date Sampled: 10/05/2006 0940
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 32 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 68 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: WPOL-SW20**

Lab Sample ID: 680-20904-6
Client Matrix: Solid

Date Sampled: 10/05/2006 1100
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 34 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 66 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: WPOL-SW21**

Lab Sample ID: 680-20904-7
Client Matrix: Solid

Date Sampled: 10/05/2006 1115
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 29 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 71 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**General Chemistry**

**Client Sample ID: WPOL-SW22**

Lab Sample ID: 680-20904-8
Client Matrix: Solid

Date Sampled: 10/05/2006 1130
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 30 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 70 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: WPOL-SW24**

Lab Sample ID: 680-20904-9
Client Matrix: Solid

Date Sampled: 10/05/2006 1145
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 27 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 73 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

**Client Sample ID: WPOL-Stockpile**

Lab Sample ID: 680-20904-11
Client Matrix: Solid

Date Sampled: 10/05/2006 1330
Date Received: 10/06/2006 0847

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 28 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |
| Percent Solids | 72 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-56777 | Date Analyzed | 10/06/2006 1114 | | | | |

# DATA REPORTING QUALIFIERS

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | X | Surrogate exceeds the control limits |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | F | MS or MSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | X | Surrogate exceeds the control limits |
| GC VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Analysis Batch:680-56773** | | | | | |
| LCS 680-56773/4 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-56773/5 | Method Blank | T | Solid | 8260B | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 8260B | 680-56790 |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 8260B | 680-56790 |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 8260B | 680-56790 |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 8260B | 680-56790 |
| 680-20904-7 | WPOL-SW21 | T | Solid | 8260B | 680-56790 |
| 680-20904-9 | WPOL-SW24 | T | Solid | 8260B | 680-56790 |
| **Prep Batch: 680-56790** | | | | | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 5035 | |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 5035 | |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 5035 | |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 5035 | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 5035 | |
| 680-20904-6RA | WPOL-SW20 | T | Solid | 5035 | |
| 680-20904-7 | WPOL-SW21 | T | Solid | 5035 | |
| 680-20904-8 | WPOL-SW22 | T | Solid | 5035 | |
| 680-20904-9 | WPOL-SW24 | T | Solid | 5035 | |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 5035 | |
| **Analysis Batch:680-56975** | | | | | |
| LCS 680-56975/9 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-56975/11 | Method Blank | T | Solid | 8260B | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 8260B | 680-56790 |
| 680-20904-6RA | WPOL-SW20 | T | Solid | 8260B | 680-56790 |
| 680-20904-8 | WPOL-SW22 | T | Solid | 8260B | 680-56790 |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 8260B | 680-56790 |
| **Analysis Batch:680-56985** | | | | | |
| LCS 680-56985/2 | Lab Control Spike | T | Water | 8260B | |
| MB 680-56985/3 | Method Blank | T | Water | 8260B | |
| 680-20904-5 | Trip Blank | T | Water | 8260B | |
| 680-20904-12 | Trip Blank | T | Water | 8260B | |
| 680-20904-13 | Trip Blank | T | Water | 8260B | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 680-56736** | | | | | |
| LCS 680-56736/22-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-56736/21-A | Method Blank | T | Solid | 3550B | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 3550B | |
| 680-20904-1MS | Matrix Spike | T | Solid | 3550B | |
| 680-20904-1MSD | Matrix Spike Duplicate | T | Solid | 3550B | |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 3550B | |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 3550B | |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 3550B | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 3550B | |
| 680-20904-7 | WPOL-SW21 | T | Solid | 3550B | |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 3550B | |
| **Analysis Batch:680-56877** | | | | | |
| LCS 680-56736/22-A | Lab Control Spike | T | Solid | 8270C | 680-56736 |
| MB 680-56736/21-A | Method Blank | T | Solid | 8270C | 680-56736 |
| MB 680-56906/3-A | Method Blank | T | Solid | 8270C | 680-56906 |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 8270C | 680-56736 |
| 680-20904-1MS | Matrix Spike | T | Solid | 8270C | 680-56736 |
| 680-20904-1MSD | Matrix Spike Duplicate | T | Solid | 8270C | 680-56736 |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 8270C | 680-56736 |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 8270C | 680-56736 |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 8270C | 680-56736 |
| 680-20904-6 | WPOL-SW20 | T | Solid | 8270C | 680-56736 |
| 680-20904-7 | WPOL-SW21 | T | Solid | 8270C | 680-56736 |
| 680-20904-8 | WPOL-SW22 | T | Solid | 8270C | 680-56906 |
| 680-20904-9 | WPOL-SW24 | T | Solid | 8270C | 680-56906 |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 8270C | 680-56736 |
| **Prep Batch: 680-56906** | | | | | |
| LCS 680-56906/4-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-56906/3-A | Method Blank | T | Solid | 3550B | |
| 680-20904-8 | WPOL-SW22 | T | Solid | 3550B | |
| 680-20904-9 | WPOL-SW24 | T | Solid | 3550B | |
| **Analysis Batch:680-56955** | | | | | |
| LCS 680-56906/4-A | Lab Control Spike | T | Solid | 8270C | 680-56906 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC VOA** | | | | | |
| **Prep Batch: 680-56790** | | | | | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 5035 | |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 5035 | |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 5035 | |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 5035 | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 5035 | |
| 680-20904-7 | WPOL-SW21 | T | Solid | 5035 | |
| 680-20904-8 | WPOL-SW22 | T | Solid | 5035 | |
| 680-20904-9 | WPOL-SW24 | T | Solid | 5035 | |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 5035 | |
| **Analysis Batch:680-56899** | | | | | |
| LCS 680-56899/1 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-56899/2 | Method Blank | T | Solid | 8015B | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 8015B | 680-56790 |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 8015B | 680-56790 |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 8015B | 680-56790 |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 8015B | 680-56790 |
| 680-20904-7 | WPOL-SW21 | T | Solid | 8015B | 680-56790 |
| 680-20904-9 | WPOL-SW24 | T | Solid | 8015B | 680-56790 |
| **Analysis Batch:680-56930** | | | | | |
| LCS 680-56930/2 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-56930/3 | Method Blank | T | Solid | 8015B | |
| 680-20904-8 | WPOL-SW22 | T | Solid | 8015B | 680-56790 |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 8015B | 680-56790 |
| **Analysis Batch:680-56982** | | | | | |
| LCS 680-56982/1 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-56982/2 | Method Blank | T | Solid | 8015B | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 8015B | 680-56790 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 680-56754** | | | | | |
| LCS 680-56754/20-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-56754/19-A | Method Blank | T | Solid | 3550B | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 3550B | |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 3550B | |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 3550B | |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 3550B | |
| 680-20904-6 | WPOL-SW20 | T | Solid | 3550B | |
| 680-20904-7 | WPOL-SW21 | T | Solid | 3550B | |
| 680-20904-8 | WPOL-SW22 | T | Solid | 3550B | |
| 680-20904-9 | WPOL-SW24 | T | Solid | 3550B | |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 3550B | |
| **Analysis Batch:680-56923** | | | | | |
| LCS 680-56754/20-A | Lab Control Spike | T | Solid | 8015B | 680-56754 |
| MB 680-56754/19-A | Method Blank | T | Solid | 8015B | 680-56754 |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | 8015B | 680-56754 |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | 8015B | 680-56754 |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | 8015B | 680-56754 |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | 8015B | 680-56754 |
| 680-20904-6 | WPOL-SW20 | T | Solid | 8015B | 680-56754 |
| 680-20904-7 | WPOL-SW21 | T | Solid | 8015B | 680-56754 |
| 680-20904-8 | WPOL-SW22 | T | Solid | 8015B | 680-56754 |
| 680-20904-9 | WPOL-SW24 | T | Solid | 8015B | 680-56754 |
| 680-20904-11 | WPOL-Stockpile | T | Solid | 8015B | 680-56754 |

**Report Basis**
T = Total

**General Chemistry**

| | | | | | |
|---|---|---|---|---|---|
| **Analysis Batch:680-56777** | | | | | |
| 680-20904-1 | FLSS17-L13-B1R | T | Solid | PercentMoisture | |
| 680-20904-2 | FLSS17-L13-B2R | T | Solid | PercentMoisture | |
| 680-20904-3 | FLSS17-L13-B3R | T | Solid | PercentMoisture | |
| 680-20904-4 | FLSS17-L13-B4R | T | Solid | PercentMoisture | |
| 680-20904-6 | WPOL-SW20 | T | Solid | PercentMoisture | |
| 680-20904-7 | WPOL-SW21 | T | Solid | PercentMoisture | |
| 680-20904-8 | WPOL-SW22 | T | Solid | PercentMoisture | |
| 680-20904-9 | WPOL-SW24 | T | Solid | PercentMoisture | |
| 680-20904-11 | WPOL-Stockpile | T | Solid | PercentMoisture | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|---|
| LCS 680-56773/4 | | 94 | | 97 | 102 |
| LCS 680-56975/9 | | 96 | | 90 | 99 |
| MB 680-56773/5 | | 94 | | 99 | 99 |
| MB 680-56975/11 | | 89 | | 91 | 99 |
| 680-20904-1 | FLSS17-L13-B1R | 98 | | 102 | 92 |
| 680-20904-2 | FLSS17-L13-B2R | 96 | | 107 | 90 |
| 680-20904-3 | FLSS17-L13-B3R | 94 | | 97 | 83 |
| 680-20904-4 | FLSS17-L13-B4R | 97 | | 99 | 93 |
| 680-20904-6 | WPOL-SW20 | 128 | X | 92 | 108 |
| 680-20904-6RA | WPOL-SW20 | 122 | X | 100 | 109 |
| 680-20904-7 | WPOL-SW21 | 99 | | 105 | 99 |
| 680-20904-8 | WPOL-SW22 | 105 | | 99 | 102 |
| 680-20904-9 | WPOL-SW24 | 102 | | 100 | 101 |
| 680-20904-11 | WPOL-Stockpile | 104 | | 102 | 120 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 68 - 121 |
| (DBFM) | Dibromofluoromethane | 66 - 127 |
| (TOL) | Toluene-d8 (Surr) | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-56985/2 | | 109 | 110 | 102 |
| MB 680-56985/3 | | 92 | 114 | 93 |
| 680-20904-5 | Trip Blank | 94 | 114 | 99 |
| 680-20904-12 | Trip Blank | 94 | 114 | 98 |
| 680-20904-13 | Trip Blank | 97 | 117 | 100 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 77 - 120 |
| (DBFM) | Dibromofluoromethane | 75 - 123 |
| (TOL) | Toluene-d8 (Surr) | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## Surrogate Recovery Report

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (2FP) (%Rec) | (FBP) (%Rec) | (NBZ) (%Rec) | (PHL) (%Rec) | (TBP) (%Rec) | (TPH) (%Rec) |
|---|---|---|---|---|---|---|---|
| 680-20904-1MS | FLSS17-L13-B1R | 35 X | 40 | 33 | 36 X | 52 | 42 |
| 680-20904-1MSD | FLSS17-L13-B1R | 39 | 41 | 35 | 38 | 53 | 44 |
| LCS 680-56736/22-A | | 82 | 82 | 73 | 83 | 101 | 79 |
| LCS 680-56906/4-A | | 93 | 87 | 84 | 90 | 102 | 81 |
| MB 680-56736/21-A | | 74 | 74 | 64 | 70 | 63 | 73 |
| MB 680-56906/3-A | | 84 | 78 | 76 | 78 | 84 | 75 |
| 680-20904-1 | FLSS17-L13-B1R | 59 | 59 | 50 | 56 | 62 | 53 |
| 680-20904-2 | FLSS17-L13-B2R | 47 | 50 | 41 | 47 | 56 | 47 |
| 680-20904-3 | FLSS17-L13-B3R | 48 | 50 | 43 | 45 | 54 | 44 |
| 680-20904-4 | FLSS17-L13-B4R | 50 | 54 | 46 | 47 | 56 | 45 |
| 680-20904-6 | WPOL-SW20 | 47 | 43 | 82 | 40 | 53 | 40 |
| 680-20904-7 | WPOL-SW21 | 48 | 49 | 41 | 46 | 52 | 46 |
| 680-20904-8 | WPOL-SW22 | 74 | 67 | 59 | 70 | 80 | 61 |
| 680-20904-9 | WPOL-SW24 | 71 | 69 | 62 | 68 | 74 | 62 |
| 680-20904-11 | WPOL-Stockpile | 46 | 39 | 51 | 41 | 47 | 43 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (2FP) | 2-Fluorophenol | 36 - 101 |
| (FBP) | 2-Fluorobiphenyl | 38 - 104 |
| (NBZ) | Nitrobenzene-d5 | 33 - 94 |
| (PHL) | Phenol-d5 | 38 - 102 |
| (TBP) | 2,4,6-Tribromophenol | 27 - 124 |
| (TPH) | Terphenyl-d14 | 40 - 129 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (TFT) (%Rec) |
|---|---|---|
| LCS 680-56899/1 | | 92 |
| LCS 680-56930/2 | | 91 |
| LCS 680-56982/1 | | 86 |
| MB 680-56899/2 | | 85 |
| MB 680-56930/3 | | 89 |
| MB 680-56982/2 | | 81 |
| 680-20904-1 | FLSS17-L13-B1R | 94 |
| 680-20904-2 | FLSS17-L13-B2R | 88 |
| 680-20904-3 | FLSS17-L13-B3R | 92 |
| 680-20904-4 | FLSS17-L13-B4R | 81 |
| 680-20904-6 | WPOL-SW20 | 131 |
| 680-20904-7 | WPOL-SW21 | 79 |
| 680-20904-8 | WPOL-SW22 | 101 |
| 680-20904-9 | WPOL-SW24 | 76 |
| 680-20904-11 | WPOL-Stockpile | 99 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (TFT) | a,a,a-Trifluorotoluene | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (OTPH) (%Rec) |
|---|---|---|
| LCS 680-56754/20-A | | 100 |
| MB 680-56754/19-A | | 98 |
| 680-20904-1 | FLSS17-L13-B1R | 86 |
| 680-20904-2 | FLSS17-L13-B2R | 54 |
| 680-20904-3 | FLSS17-L13-B3R | 69 |
| 680-20904-4 | FLSS17-L13-B4R | 0 D |
| 680-20904-6 | WPOL-SW20 | 0 D |
| 680-20904-7 | WPOL-SW21 | 61 |
| 680-20904-8 | WPOL-SW22 | 55 |
| 680-20904-9 | WPOL-SW24 | 71 |
| 680-20904-11 | WPOL-Stockpile | 54 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (OTPH) | o-Terphenyl | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56773**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-56773/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/06/2006 1319
Date Prepared: N/A

Analysis Batch: 680-56773
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq446.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 50 | U | 3.0 | 50 |
| Acetonitrile | 200 | U | 28 | 200 |
| Acrolein | 100 | U | 11 | 100 |
| Bromobenzene | 5.0 | U | 0.93 | 5.0 |
| Acrylonitrile | 100 | U | 16 | 100 |
| Bromochloromethane | 5.0 | U | 0.95 | 5.0 |
| Benzene | 5.0 | U | 0.86 | 5.0 |
| Dichlorobromomethane | 5.0 | U | 1.0 | 5.0 |
| Bromoform | 5.0 | U | 2.2 | 5.0 |
| Methyl bromide | 5.0 | U | 1.3 | 5.0 |
| Methyl Ethyl Ketone | 25 | U | 4.0 | 25 |
| n-Butylbenzene | 5.0 | U | 0.99 | 5.0 |
| Carbon disulfide | 5.0 | U | 1.0 | 5.0 |
| sec-Butylbenzene | 5.0 | U | 1.1 | 5.0 |
| Carbon tetrachloride | 5.0 | U | 0.89 | 5.0 |
| tert-Butylbenzene | 5.0 | U | 1.2 | 5.0 |
| Chlorobenzene | 5.0 | U | 0.69 | 5.0 |
| Chloroethane | 5.0 | U | 1.5 | 5.0 |
| Chloroform | 5.0 | U | 0.88 | 5.0 |
| Methyl chloride | 5.0 | U | 0.70 | 5.0 |
| Allyl chloride | 5.0 | U | 1.2 | 5.0 |
| Chlorodibromomethane | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 4.6 | 10 |
| 1,2-Dibromoethane | 5.0 | U | 1.4 | 5.0 |
| 2-Chlorotoluene | 5.0 | U | 1.4 | 5.0 |
| Methylene bromide | 5.0 | U | 1.3 | 5.0 |
| 4-Chlorotoluene | 5.0 | U | 0.78 | 5.0 |
| trans-1,4-Dichloro-2-butene | 10 | U | 4.0 | 10 |
| Dichlorodifluoromethane | 5.0 | U | 2.5 | 5.0 |
| 1,1-Dichloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,2-Dichloroethane | 5.0 | U | 1.2 | 5.0 |
| 1,1-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| o-Dichlorobenzene | 5.0 | U | 1.8 | 5.0 |
| trans-1,2-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dichloropropane | 5.0 | U | 1.3 | 5.0 |
| m-Dichlorobenzene | 5.0 | U | 1.1 | 5.0 |
| cis-1,3-Dichloropropene | 5.0 | U | 0.91 | 5.0 |
| p-Dichlorobenzene | 5.0 | U | 1.4 | 5.0 |
| trans-1,3-Dichloropropene | 5.0 | U | 1.1 | 5.0 |
| Ethylbenzene | 5.0 | U | 0.87 | 5.0 |
| Ethyl methacrylate | 5.0 | U | 0.77 | 5.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56773**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-56773/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/06/2006 1319
Date Prepared: N/A

Analysis Batch: 680-56773
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq446.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 25 | U | 5.4 | 25 |
| cis-Dichloroethylene | 5.0 | U | 0.88 | 5.0 |
| Methyl iodide | 5.0 | U | 1.0 | 5.0 |
| Methacrylonitrile | 100 | U | 16 | 100 |
| Methylene Chloride | 5.0 | U | 1.6 | 5.0 |
| Methyl methacrylate | 5.0 | U | 1.7 | 5.0 |
| 1,3-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 5.8 | 25 |
| 2,2-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| Pentachloroethane | 25 | U | 4.6 | 25 |
| 1,1-Dichloropropene | 5.0 | U | 1.4 | 5.0 |
| Propionitrile | 100 | U | 23 | 100 |
| Styrene | 5.0 | U | 0.85 | 5.0 |
| 1,1,1,2-Tetrachloroethane | 5.0 | U | 1.4 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 1.0 | 5.0 |
| Tetrachloroethylene | 5.0 | U | 1.0 | 5.0 |
| Hexachlorobutadiene | 5.0 | U | 1.6 | 5.0 |
| Toluene | 5.0 | U | 1.0 | 5.0 |
| 1,1,1-Trichloroethane | 5.0 | U | 0.85 | 5.0 |
| 1,1,2-Trichloroethane | 5.0 | U | 1.2 | 5.0 |
| Trichloroethylene | 5.0 | U | 1.2 | 5.0 |
| Isopropylbenzene | 5.0 | U | 0.99 | 5.0 |
| Trichlorofluoromethane | 5.0 | U | 1.4 | 5.0 |
| 1,2,3-Trichloropropane | 5.0 | U | 2.7 | 5.0 |
| p-Isopropyltoluene | 5.0 | U | 1.2 | 5.0 |
| Vinyl acetate | 10 | U | 1.9 | 10 |
| Vinyl chloride | 5.0 | U | 0.92 | 5.0 |
| Methyl tert-butyl ether | 50 | U | 1.8 | 50 |
| Naphthalene | 5.0 | U | 3.4 | 5.0 |
| N-Propylbenzene | 5.0 | U | 1.2 | 5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 2.2 | 5.0 |
| Freon 113 | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 1.0 | 5.0 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 1.3 | 5.0 |
| o-Xylene | 5.0 | U | 1.4 | 5.0 |
| m-Xylene & p-Xylene | 10 | U | 2.0 | 10 |
| 1-Chlorohexane | 5.0 | U | 0.78 | 5.0 |
| Hexane | 5.0 | U | 2.3 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 94 | 68 - 121 |
| Dibromofluoromethane | 99 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56773**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56773/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/06/2006 1238
Date Prepared: N/A

Analysis Batch: 680-56773
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq445.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 104 | 104 | 28 - 143 | |
| Bromobenzene | 50.0 | 44.8 | 90 | 77 - 147 | |
| Bromochloromethane | 50.0 | 48.4 | 97 | 63 - 136 | |
| Benzene | 50.0 | 49.7 | 99 | 79 - 118 | |
| Dichlorobromomethane | 50.0 | 56.1 | 112 | 74 - 128 | |
| Bromoform | 50.0 | 47.7 | 95 | 62 - 137 | |
| Methyl bromide | 50.0 | 45.2 | 90 | 26 - 160 | |
| Methyl Ethyl Ketone | 100 | 101 | 101 | 30 - 149 | |
| n-Butylbenzene | 50.0 | 50.3 | 101 | 59 - 120 | |
| Carbon disulfide | 50.0 | 39.5 | 79 | 32 - 157 | |
| sec-Butylbenzene | 50.0 | 47.7 | 95 | 60 - 128 | |
| Carbon tetrachloride | 50.0 | 53.4 | 107 | 62 - 140 | |
| tert-Butylbenzene | 50.0 | 46.8 | 94 | 62 - 140 | |
| Chlorobenzene | 50.0 | 48.1 | 96 | 81 - 120 | |
| Chloroethane | 50.0 | 49.2 | 98 | 20 - 140 | |
| Chloroform | 50.0 | 47.3 | 95 | 77 - 125 | |
| Methyl chloride | 50.0 | 51.3 | 103 | 42 - 140 | |
| Chlorodibromomethane | 50.0 | 49.4 | 99 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 47.7 | 95 | 21 - 180 | |
| 1,2-Dibromoethane | 50.0 | 56.8 | 114 | 76 - 130 | |
| 2-Chlorotoluene | 50.0 | 47.3 | 95 | 49 - 219 | |
| Methylene bromide | 50.0 | 52.4 | 105 | 71 - 134 | |
| 4-Chlorotoluene | 50.0 | 46.6 | 93 | 45 - 218 | |
| Dichlorodifluoromethane | 50.0 | 45.0 | 90 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 46.8 | 94 | 43 - 157 | |
| 1,2-Dichloroethane | 50.0 | 55.8 | 112 | 65 - 133 | |
| 1,1-Dichloroethylene | 50.0 | 42.1 | 84 | 52 - 143 | |
| o-Dichlorobenzene | 50.0 | 47.1 | 94 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 50.0 | 42.3 | 85 | 35 - 154 | |
| 1,2-Dichloropropane | 50.0 | 53.0 | 106 | 77 - 118 | |
| m-Dichlorobenzene | 50.0 | 44.8 | 90 | 84 - 120 | |
| cis-1,3-Dichloropropene | 50.0 | 54.1 | 108 | 71 - 123 | |
| p-Dichlorobenzene | 50.0 | 45.6 | 91 | 67 - 133 | |
| trans-1,3-Dichloropropene | 50.0 | 55.5 | 111 | 75 - 126 | |
| Ethylbenzene | 50.0 | 48.0 | 96 | 82 - 118 | |
| 2-Hexanone | 100 | 102 | 102 | 30 - 148 | |
| cis-Dichloroethylene | 50.0 | 46.8 | 94 | 69 - 131 | |
| Methylene Chloride | 50.0 | 47.0 | 94 | 54 - 150 | |
| 1,3-Dichloropropane | 50.0 | 56.6 | 113 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 100 | 116 | 116 | 29 - 150 | |
| 2,2-Dichloropropane | 50.0 | 44.6 | 89 | 28 - 187 | |
| 1,1-Dichloropropene | 50.0 | 64.7 | 129 | 76 - 126 | * |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56773**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56773/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/06/2006 1238
Date Prepared: N/A

Analysis Batch: 680-56773
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq445.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 46.7 | 93 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 48.7 | 97 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.4 | 95 | 64 - 130 | |
| Tetrachloroethylene | 50.0 | 46.5 | 93 | 79 - 132 | |
| Hexachlorobutadiene | 50.0 | 47.0 | 94 | 29 - 135 | |
| Toluene | 50.0 | 51.9 | 104 | 80 - 118 | |
| 1,1,1-Trichloroethane | 50.0 | 52.9 | 106 | 58 - 139 | |
| 1,1,2-Trichloroethane | 50.0 | 55.9 | 112 | 76 - 120 | |
| Trichloroethylene | 50.0 | 49.8 | 100 | 80 - 122 | |
| Isopropylbenzene | 50.0 | 46.6 | 93 | 75 - 134 | |
| Trichlorofluoromethane | 50.0 | 47.7 | 95 | 38 - 146 | |
| 1,2,3-Trichloropropane | 50.0 | 51.8 | 104 | 33 - 210 | |
| p-Isopropyltoluene | 50.0 | 48.3 | 97 | 39 - 141 | |
| Vinyl acetate | 100 | 105 | 105 | 1 - 184 | |
| Vinyl chloride | 50.0 | 49.6 | 99 | 34 - 154 | |
| Methyl tert-butyl ether | 100 | 90.4 | 90 | 37 - 168 | |
| Naphthalene | 50.0 | 46.3 | 93 | 42 - 250 | |
| N-Propylbenzene | 50.0 | 47.4 | 95 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 50.0 | 46.1 | 92 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 50.0 | 46.3 | 93 | 49 - 152 | |
| Freon 113 | 50.0 | 44.8 | 90 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 48.9 | 98 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 50.0 | 47.9 | 96 | 72 - 124 | |
| o-Xylene | 50.0 | 47.6 | 95 | 74 - 122 | |
| m-Xylene & p-Xylene | 100 | 94.9 | 95 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 94 | 68 - 121 |
| Dibromofluoromethane | 97 | 66 - 127 |
| Toluene-d8 (Surr) | 102 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56975**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-56975/11
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/10/2006 1533
Date Prepared: N/A

Analysis Batch: 680-56975
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq577.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 2000 | U | 120 | 2000 |
| Acetonitrile | 8000 | U | 1100 | 8000 |
| Acrolein | 4000 | U | 440 | 4000 |
| Bromobenzene | 200 | U | 37 | 200 |
| Acrylonitrile | 4000 | U | 630 | 4000 |
| Bromochloromethane | 200 | U | 38 | 200 |
| Benzene | 200 | U | 34 | 200 |
| Dichlorobromomethane | 200 | U | 40 | 200 |
| Bromoform | 200 | U | 88 | 200 |
| Methyl bromide | 200 | U | 52 | 200 |
| Methyl Ethyl Ketone | 1000 | U | 160 | 1000 |
| n-Butylbenzene | 200 | U | 40 | 200 |
| Carbon disulfide | 200 | U | 40 | 200 |
| sec-Butylbenzene | 200 | U | 44 | 200 |
| Carbon tetrachloride | 200 | U | 36 | 200 |
| tert-Butylbenzene | 200 | U | 48 | 200 |
| Chlorobenzene | 200 | U | 28 | 200 |
| Chloroethane | 200 | U | 60 | 200 |
| Chloroform | 200 | U | 35 | 200 |
| Methyl chloride | 200 | U | 28 | 200 |
| Allyl chloride | 200 | U | 48 | 200 |
| Chlorodibromomethane | 200 | U | 44 | 200 |
| 1,2-Dibromo-3-Chloropropane | 400 | U | 180 | 400 |
| 1,2-Dibromoethane | 200 | U | 56 | 200 |
| 2-Chlorotoluene | 200 | U | 56 | 200 |
| Methylene bromide | 200 | U | 52 | 200 |
| 4-Chlorotoluene | 200 | U | 31 | 200 |
| trans-1,4-Dichloro-2-butene | 400 | U | 160 | 400 |
| Dichlorodifluoromethane | 200 | U | 100 | 200 |
| 1,1-Dichloroethane | 200 | U | 40 | 200 |
| 1,2-Dichloroethane | 200 | U | 48 | 200 |
| 1,1-Dichloroethylene | 200 | U | 44 | 200 |
| o-Dichlorobenzene | 200 | U | 72 | 200 |
| trans-1,2-Dichloroethylene | 200 | U | 44 | 200 |
| 1,2-Dichloropropane | 200 | U | 52 | 200 |
| m-Dichlorobenzene | 200 | U | 44 | 200 |
| cis-1,3-Dichloropropene | 200 | U | 36 | 200 |
| p-Dichlorobenzene | 200 | U | 56 | 200 |
| trans-1,3-Dichloropropene | 200 | U | 44 | 200 |
| Ethylbenzene | 200 | U | 35 | 200 |
| Ethyl methacrylate | 200 | U | 31 | 200 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56975**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-56975/11
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/10/2006 1533
Date Prepared: N/A

Analysis Batch: 680-56975
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq577.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 1000 | U | 220 | 1000 |
| cis-Dichloroethylene | 200 | U | 35 | 200 |
| Methyl iodide | 200 | U | 40 | 200 |
| Methacrylonitrile | 4000 | U | 640 | 4000 |
| Methylene Chloride | 200 | U | 64 | 200 |
| Methyl methacrylate | 200 | U | 66 | 200 |
| 1,3-Dichloropropane | 200 | U | 48 | 200 |
| 4-Methyl-2-pentanone (MIBK) | 1000 | U | 230 | 1000 |
| 2,2-Dichloropropane | 200 | U | 48 | 200 |
| Pentachloroethane | 1000 | U | 180 | 1000 |
| 1,1-Dichloropropene | 200 | U | 56 | 200 |
| Propionitrile | 4000 | U | 920 | 4000 |
| Styrene | 200 | U | 34 | 200 |
| 1,1,1,2-Tetrachloroethane | 200 | U | 56 | 200 |
| 1,1,2,2-Tetrachloroethane | 200 | U | 40 | 200 |
| Tetrachloroethylene | 200 | U | 40 | 200 |
| Hexachlorobutadiene | 200 | U | 64 | 200 |
| Toluene | 200 | U | 40 | 200 |
| 1,1,1-Trichloroethane | 200 | U | 34 | 200 |
| 1,1,2-Trichloroethane | 200 | U | 48 | 200 |
| Trichloroethylene | 200 | U | 48 | 200 |
| Isopropylbenzene | 200 | U | 40 | 200 |
| Trichlorofluoromethane | 200 | U | 56 | 200 |
| 1,2,3-Trichloropropane | 200 | U | 110 | 200 |
| p-Isopropyltoluene | 200 | U | 48 | 200 |
| Vinyl acetate | 400 | U | 76 | 400 |
| Vinyl chloride | 200 | U | 37 | 200 |
| Methyl tert-butyl ether | 2000 | U | 72 | 2000 |
| Naphthalene | 200 | U | 140 | 200 |
| N-Propylbenzene | 200 | U | 48 | 200 |
| 1,2,3-Trichlorobenzene | 200 | U | 40 | 200 |
| 1,2,4-Trichlorobenzene | 200 | U | 88 | 200 |
| Freon 113 | 200 | U | 40 | 200 |
| 1,2,4-Trimethylbenzene | 200 | U | 40 | 200 |
| 1,3,5-Trimethylbenzene | 200 | U | 52 | 200 |
| o-Xylene | 200 | U | 56 | 200 |
| m-Xylene & p-Xylene | 400 | U | 80 | 400 |
| 1-Chlorohexane | 200 | U | 31 | 200 |
| Hexane | 200 | U | 92 | 200 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

## Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 89 | 68 - 121 |
| Dibromofluoromethane | 91 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56975**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56975/9
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/10/2006 1432
Date Prepared: N/A

Analysis Batch: 680-56975
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq575.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 5000 | 5060 | 101 | 28 - 143 | |
| Bromobenzene | 2500 | 2270 | 91 | 77 - 147 | |
| Bromochloromethane | 2500 | 2320 | 93 | 63 - 136 | |
| Benzene | 2500 | 2400 | 96 | 79 - 118 | |
| Dichlorobromomethane | 2500 | 2430 | 97 | 74 - 128 | |
| Bromoform | 2500 | 2070 | 83 | 62 - 137 | |
| Methyl bromide | 2500 | 1990 | 79 | 26 - 160 | |
| Methyl Ethyl Ketone | 5000 | 4450 | 89 | 30 - 149 | |
| n-Butylbenzene | 2500 | 2660 | 106 | 59 - 120 | |
| Carbon disulfide | 2500 | 1690 | 68 | 32 - 157 | |
| sec-Butylbenzene | 2500 | 2510 | 100 | 60 - 128 | |
| Carbon tetrachloride | 2500 | 2320 | 93 | 62 - 140 | |
| tert-Butylbenzene | 2500 | 2450 | 98 | 62 - 140 | |
| Chlorobenzene | 2500 | 2380 | 95 | 81 - 120 | |
| Chloroethane | 2500 | 2100 | 84 | 20 - 140 | |
| Chloroform | 2500 | 2210 | 88 | 77 - 125 | |
| Methyl chloride | 2500 | 1980 | 79 | 42 - 140 | |
| Chlorodibromomethane | 2500 | 2230 | 89 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2290 | 91 | 21 - 180 | |
| 1,2-Dibromoethane | 2500 | 2250 | 90 | 76 - 130 | |
| 2-Chlorotoluene | 2500 | 2460 | 99 | 49 - 219 | |
| Methylene bromide | 2500 | 2440 | 98 | 71 - 134 | |
| 4-Chlorotoluene | 2500 | 2390 | 96 | 45 - 218 | |
| Dichlorodifluoromethane | 2500 | 1610 | 64 | 70 - 130 | * |
| 1,1-Dichloroethane | 2500 | 2170 | 87 | 43 - 157 | |
| 1,2-Dichloroethane | 2500 | 2640 | 106 | 65 - 133 | |
| 1,1-Dichloroethylene | 2500 | 1820 | 73 | 52 - 143 | |
| o-Dichlorobenzene | 2500 | 2420 | 97 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 2500 | 1900 | 76 | 35 - 154 | |
| 1,2-Dichloropropane | 2500 | 2420 | 97 | 77 - 118 | |
| m-Dichlorobenzene | 2500 | 2430 | 97 | 84 - 120 | |
| cis-1,3-Dichloropropene | 2500 | 2310 | 92 | 71 - 123 | |
| p-Dichlorobenzene | 2500 | 2410 | 97 | 67 - 133 | |
| trans-1,3-Dichloropropene | 2500 | 2250 | 90 | 75 - 126 | |
| Ethylbenzene | 2500 | 2470 | 99 | 82 - 118 | |
| 2-Hexanone | 5000 | 4760 | 95 | 30 - 148 | |
| cis-Dichloroethylene | 2500 | 2070 | 83 | 69 - 131 | |
| Methylene Chloride | 2500 | 2040 | 82 | 54 - 150 | |
| 1,3-Dichloropropane | 2500 | 2330 | 93 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 5000 | 4780 | 96 | 29 - 150 | |
| 2,2-Dichloropropane | 2500 | 2090 | 83 | 28 - 187 | |
| 1,1-Dichloropropene | 2500 | 2230 | 89 | 76 - 126 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56975**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56975/9
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/10/2006 1432
Date Prepared: N/A

Analysis Batch: 680-56975
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq575.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 2500 | 2460 | 98 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 2500 | 2250 | 90 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 2500 | 2160 | 87 | 64 - 130 | |
| Tetrachloroethylene | 2500 | 2370 | 95 | 79 - 132 | |
| Hexachlorobutadiene | 2500 | 2650 | 106 | 29 - 135 | |
| Toluene | 2500 | 2500 | 100 | 80 - 118 | |
| 1,1,1-Trichloroethane | 2500 | 2380 | 95 | 58 - 139 | |
| 1,1,2-Trichloroethane | 2500 | 2260 | 91 | 76 - 120 | |
| Trichloroethylene | 2500 | 2250 | 90 | 80 - 122 | |
| Isopropylbenzene | 2500 | 2450 | 98 | 75 - 134 | |
| Trichlorofluoromethane | 2500 | 1110 | 45 | 38 - 146 | |
| 1,2,3-Trichloropropane | 2500 | 2410 | 96 | 33 - 210 | |
| p-Isopropyltoluene | 2500 | 2650 | 106 | 39 - 141 | |
| Vinyl acetate | 5000 | 4690 | 94 | 1 - 184 | |
| Vinyl chloride | 2500 | 2270 | 91 | 34 - 154 | |
| Methyl tert-butyl ether | 5000 | 4360 | 87 | 37 - 168 | |
| Naphthalene | 2500 | 2330 | 93 | 42 - 250 | |
| N-Propylbenzene | 2500 | 2470 | 99 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 2500 | 2530 | 101 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 2500 | 2550 | 102 | 49 - 152 | |
| Freon 113 | 2500 | 1910 | 76 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 2500 | 2660 | 106 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 2500 | 2590 | 104 | 72 - 124 | |
| o-Xylene | 2500 | 2500 | 100 | 74 - 122 | |
| m-Xylene & p-Xylene | 5000 | 4950 | 99 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96 | 68 - 121 |
| Dibromofluoromethane | 90 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56985**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-56985/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2006 1158
Date Prepared: 10/10/2006 1158

Analysis Batch: 680-56985
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq988.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56985**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-56985/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2006 1158
Date Prepared: 10/10/2006 1158

Analysis Batch: 680-56985
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq988.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 10 | U | 0.39 | 10 |
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 92 | 77 - 120 |
| Dibromofluoromethane | 114 | 75 - 123 |
| Toluene-d8 (Surr) | 93 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56985**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-56985/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2006 1102
Date Prepared: 10/10/2006 1102

Analysis Batch: 680-56985
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq004.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 104 | 104 | 20 - 183 | |
| Bromobenzene | 50.0 | 57.9 | 116 | 55 - 131 | |
| Bromochloromethane | 50.0 | 49.1 | 98 | 50 - 154 | |
| Benzene | 50.0 | 47.3 | 95 | 74 - 122 | |
| Dichlorobromomethane | 50.0 | 45.2 | 90 | 74 - 128 | |
| Bromoform | 50.0 | 50.5 | 101 | 64 - 132 | |
| Methyl bromide | 50.0 | 71.6 | 143 | 21 - 176 | |
| Methyl Ethyl Ketone | 100 | 83.7 | 84 | 51 - 142 | |
| n-Butylbenzene | 50.0 | 39.7 | 79 | 47 - 130 | |
| Carbon disulfide | 50.0 | 52.7 | 105 | 60 - 130 | |
| sec-Butylbenzene | 50.0 | 46.1 | 92 | 53 - 125 | |
| Carbon tetrachloride | 50.0 | 47.9 | 96 | 64 - 137 | |
| tert-Butylbenzene | 50.0 | 47.0 | 94 | 51 - 134 | |
| Chlorobenzene | 50.0 | 52.0 | 104 | 75 - 123 | |
| Chloroethane | 50.0 | 53.9 | 108 | 40 - 171 | |
| Chloroform | 50.0 | 51.9 | 104 | 74 - 124 | |
| Methyl chloride | 50.0 | 40.9 | 82 | 51 - 133 | |
| Dibromochloromethane | 50.0 | 52.1 | 104 | 75 - 126 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 40.2 | 80 | 14 - 147 | |
| 1,2-Dibromoethane | 50.0 | 45.8 | 92 | 60 - 118 | |
| Methylene bromide | 50.0 | 45.3 | 91 | 70 - 130 | |
| o-Chlorotoluene | 50.0 | 54.3 | 109 | 53 - 133 | |
| p-Chlorotoluene | 50.0 | 54.2 | 108 | 47 - 132 | |
| Dichlorodifluoromethane | 50.0 | 44.3 | 89 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 52.9 | 106 | 70 - 127 | |
| 1,2-Dichloroethane | 50.0 | 42.5 | 85 | 68 - 130 | |
| 1,1-Dichlorethylene | 50.0 | 58.4 | 117 | 64 - 132 | |
| o-Dichlorobenzene | 50.0 | 54.0 | 108 | 71 - 125 | |
| trans-1-2-Dichloroethylene | 50.0 | 55.6 | 111 | 67 - 130 | |
| 1,2-Dichloropropane | 50.0 | 45.7 | 91 | 74 - 123 | |
| m-Dichlorobenzene | 50.0 | 54.3 | 109 | 70 - 125 | |
| cis-1,3-Dichloropropene | 50.0 | 48.5 | 97 | 76 - 126 | |
| p-Dichlorobenzene | 50.0 | 52.9 | 106 | 65 - 127 | |
| trans-1,3-Dichloropropene | 50.0 | 47.0 | 94 | 75 - 126 | |
| Ethylbenzene | 50.0 | 54.8 | 110 | 77 - 123 | |
| 2-Hexanone | 100 | 64.9 | 65 | 58 - 139 | |
| cis-1,2-Dichloroethylene | 50.0 | 58.6 | 117 | 69 - 126 | |
| Methylene Chloride | 50.0 | 55.4 | 111 | 67 - 128 | |
| 1,3-Dichloropropane | 50.0 | 45.9 | 92 | 60 - 125 | |
| 4-Methyl-2-pentanone | 100 | 58.8 | 59 | 62 - 130 | * |
| 2,2-Dichloropropane | 50.0 | 55.2 | 110 | 42 - 155 | |
| 1,1-Dichloropropene | 50.0 | 47.8 | 96 | 70 - 130 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56985**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-56985/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/10/2006 1102
Date Prepared: 10/10/2006 1102

Analysis Batch: 680-56985
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - A
Lab File ID: aq004.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 51.6 | 103 | 75 - 125 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 53.7 | 107 | 62 - 107 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 42.4 | 85 | 71 - 127 | |
| Tetrachloroethylene | 50.0 | 55.7 | 111 | 70 - 133 | |
| Hexachlorobutadiene | 50.0 | 39.5 | 79 | 58 - 133 | |
| Toluene | 50.0 | 50.4 | 101 | 75 - 122 | |
| 1,1,1-Trichloroethane | 50.0 | 47.6 | 95 | 70 - 132 | |
| 1,1,2-Trichloroethane | 50.0 | 43.9 | 88 | 75 - 122 | |
| Trichloroethylene | 50.0 | 45.3 | 91 | 75 - 122 | |
| Isopropylbenzene | 50.0 | 48.4 | 97 | 62 - 122 | |
| Trichlorofluoromethane | 50.0 | 56.3 | 113 | 74 - 165 | |
| 1,2,3-Trichloropropane | 50.0 | 43.4 | 87 | 60 - 147 | |
| p-Isopropyltoluene | 50.0 | 45.4 | 91 | 58 - 123 | |
| Vinyl acetate | 100 | 67.7 | 68 | 47 - 150 | |
| Vinyl chloride | 50.0 | 46.5 | 93 | 59 - 136 | |
| Methyl tert-butyl ether | 100 | 103 | 103 | 70 - 130 | |
| Naphthalene | 50.0 | 29.3 | 59 | 58 - 143 | |
| N-Propylbenzene | 50.0 | 50.7 | 101 | 53 - 125 | |
| 1,2,3-Trichlorobenzene | 50.0 | 34.0 | 68 | 38 - 130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 34.3 | 69 | 48 - 131 | |
| Freon 113 | 50.0 | 58.1 | 116 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 50.0 | 100 | 53 - 142 | |
| 1,3,5-Trimethylbenzene | 50.0 | 50.1 | 100 | 50 - 127 | |
| o-Xylene | 50.0 | 49.4 | 99 | 76 - 122 | |
| m-Xylene & p-Xylene | 100 | 105 | 105 | 74 - 123 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 109 | 77 - 120 |
| Dibromofluoromethane | 110 | 75 - 123 |
| Toluene-d8 (Surr) | 102 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-56736/21-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 0844
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3922.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-56736/21-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 0844
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3922.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 74 | 38 - 104 |
| 2-Fluorophenol | 74 | 36 - 101 |
| Nitrobenzene-d5 | 64 | 33 - 94 |
| Phenol-d5 | 70 | 38 - 102 |
| Terphenyl-d14 | 73 | 40 - 129 |
| 2,4,6-Tribromophenol | 63 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-56736/22-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1258
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3932.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2370 | 71 | 36 - 108 | |
| Acenaphthylene | 3330 | 2600 | 78 | 41 - 112 | |
| Anthracene | 3330 | 2470 | 74 | 46 - 115 | |
| Benzidine | 3330 | 1010 | 30 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 2670 | 80 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3150 | 94 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 2860 | 86 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 2860 | 86 | 41 - 122 | |
| Benzoic acid | 3330 | 172 | 5 | 10 - 94 | J * |
| Benzo[k]fluoranthene | 3330 | 3040 | 91 | 36 - 124 | |
| Benzyl alcohol | 3330 | 2520 | 76 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2650 | 80 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 2250 | 67 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 2460 | 74 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2840 | 85 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2290 | 69 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 2680 | 80 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 2220 | 67 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 2860 | 86 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2410 | 72 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 2400 | 72 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2710 | 81 | 42 - 111 | |
| Chrysene | 3330 | 2710 | 81 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 2850 | 86 | 41 - 124 | |
| Dibenzofuran | 3330 | 2560 | 77 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2180 | 65 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2030 | 61 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2060 | 62 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 2210 | 66 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 2540 | 76 | 43 - 108 | |
| Diethyl phthalate | 3330 | 2860 | 86 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 2220 | 67 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 2690 | 81 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2530 | 76 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 1580 | 47 | 11 - 142 | J |
| 2,4-Dinitrophenol | 3330 | 335 | 10 | 1 - 131 | J |
| 2,4-Dinitrotoluene | 3330 | 2710 | 81 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 2700 | 81 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 2890 | 87 | 43 - 129 | |
| Fluoranthene | 3330 | 2720 | 82 | 41 - 124 | |
| Fluorene | 3330 | 2650 | 80 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 2650 | 79 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-56736/22-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1258
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3932.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 2660 | 80 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 2050 | 62 | 20 - 109 | |
| Hexachloroethane | 3330 | 2130 | 64 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2590 | 78 | 36 - 133 | |
| Isophorone | 3330 | 2520 | 76 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2370 | 71 | 39 - 104 | |
| 2-Methylphenol | 3330 | 2470 | 74 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 2500 | 75 | 37 - 106 | |
| Naphthalene | 3330 | 2200 | 66 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 2930 | 88 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 2600 | 78 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2710 | 81 | 32 - 130 | |
| Nitrobenzene | 3330 | 2260 | 68 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2190 | 66 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 2710 | 81 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 2610 | 78 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 2560 | 77 | 16 - 113 | |
| Pentachlorophenol | 3330 | 2140 | 64 | 27 - 116 | |
| Phenanthrene | 3330 | 2390 | 72 | 47 - 114 | |
| Phenol | 3330 | 2500 | 75 | 34 - 98 | |
| Pyrene | 3330 | 2260 | 68 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2210 | 66 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 2910 | 87 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 2600 | 78 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 82 | 38 - 104 |
| 2-Fluorophenol | 82 | 36 - 101 |
| Nitrobenzene-d5 | 73 | 33 - 94 |
| Phenol-d5 | 83 | 38 - 102 |
| Terphenyl-d14 | 79 | 40 - 129 |
| 2,4,6-Tribromophenol | 101 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-20904-1 | Analysis Batch: | 680-56877 | Instrument ID: | GC/MS SemiVolatiles - E |
| Client Matrix: | Solid | Prep Batch: | 680-56736 | Lab File ID: | e3933.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.06 g |
| Date Analyzed: | 10/09/2006 1321 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-20904-1 | Analysis Batch: | 680-56877 | Instrument ID: | GC/MS SemiVolatiles - E |
| Client Matrix: | Solid | Prep Batch: | 680-56736 | Lab File ID: | e3934.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.02 g |
| Date Analyzed: | 10/09/2006 1343 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Acenaphthene | 38 | 39 | 36 - 108 | 2 | 50 | | |
| Acenaphthylene | 40 | 42 | 41 - 112 | 4 | 50 | F | |
| Anthracene | 42 | 44 | 46 - 115 | 4 | 50 | F | F |
| Benzidine | 17 | 18 | 1 - 95 | 5 | 50 | J | J |
| Benzo[a]anthracene | 46 | 47 | 46 - 116 | 3 | 50 | | |
| Benzo[a]pyrene | 52 | 53 | 37 - 120 | 2 | 50 | | |
| Benzo[b]fluoranthene | 46 | 51 | 35 - 122 | 10 | 50 | | |
| Benzo[g,h,i]perylene | 49 | 50 | 41 - 122 | 2 | 50 | | |
| Benzoic acid | 2 | 3 | 10 - 94 | NC | 50 | U F | U F |
| Benzo[k]fluoranthene | 52 | 50 | 36 - 124 | 3 | 50 | | |
| Benzyl alcohol | 33 | 36 | 30 - 98 | 9 | 50 | | |
| Bis(2-chloroethoxy)methane | 37 | 39 | 38 - 106 | 7 | 50 | F | |
| Bis(2-chloroethyl)ether | 27 | 31 | 30 - 98 | 14 | 50 | F | |
| bis(chloroisopropyl) ether | 34 | 37 | 16 - 116 | 7 | 50 | | |
| Bis(2-ethylhexyl) phthalate | 49 | 49 | 25 - 134 | 0 | 50 | | |
| 4-Bromophenyl phenyl ether | 38 | 39 | 38 - 106 | 2 | 50 | | |
| Butyl benzyl phthalate | 45 | 47 | 43 - 127 | 3 | 50 | | |
| 4-Chloroaniline | 35 | 37 | 7 - 103 | 5 | 50 | | |
| 4-Chloro-3-methylphenol | 43 | 46 | 39 - 113 | 6 | 50 | | |
| 2-Chloronaphthalene | 37 | 38 | 41 - 110 | 4 | 50 | F | F |
| 2-Chlorophenol | 32 | 35 | 36 - 99 | 9 | 50 | F | F |
| 4-Chlorophenyl phenyl ether | 43 | 44 | 42 - 111 | 1 | 50 | | |
| Chrysene | 47 | 48 | 46 - 118 | 1 | 50 | | |
| Dibenz(a,h)anthracene | 49 | 50 | 41 - 124 | 2 | 50 | | |
| Dibenzofuran | 40 | 41 | 44 - 108 | 2 | 50 | F | F |
| 1,2-Dichlorobenzene | 29 | 31 | 35 - 93 | 5 | 50 | F | F |
| 1,3-Dichlorobenzene | 28 | 29 | 34 - 90 | 6 | 50 | F | F |
| 1,4-Dichlorobenzene | 28 | 29 | 32 - 90 | 3 | 50 | F | F |
| 3,3'-Dichlorobenzidine | 38 | 40 | 1 - 118 | 5 | 50 | | |
| 2,4-Dichlorophenol | 37 | 37 | 43 - 108 | 1 | 50 | F | F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1321
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3933.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:

MSD Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1343
Date Prepared: 10/06/2006 0815

Analysis Batch: 680-56877
Prep Batch: 680-56736

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3934.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diethyl phthalate | 46 | 46 | 41 - 118 | 2 | 50 | | |
| 2,4-Dimethylphenol | 33 | 34 | 40 - 112 | 4 | 50 | F | F |
| Dimethyl phthalate | 43 | 44 | 43 - 114 | 3 | 50 | | |
| Di-n-butyl phthalate | 42 | 43 | 35 - 93 | 2 | 50 | | |
| 4,6-Dinitro-o-cresol | 29 | 32 | 11 - 142 | 11 | 50 | J | J |
| 2,4-Dinitrophenol | 14 | 12 | 1 - 131 | 16 | 50 | J | J |
| 2,4-Dinitrotoluene | 43 | 45 | 32 - 128 | 6 | 50 | | |
| 2,6-Dinitrotoluene | 41 | 43 | 38 - 128 | 6 | 50 | | |
| Di-n-octyl phthalate | 50 | 50 | 43 - 129 | 0 | 50 | | |
| Fluoranthene | 45 | 47 | 41 - 124 | 4 | 50 | | |
| Fluorene | 43 | 44 | 37 - 113 | 2 | 50 | | |
| Hexachlorobenzene | 45 | 46 | 46 - 115 | 3 | 50 | F | |
| Hexachlorobutadiene | 38 | 40 | 42 - 105 | 4 | 50 | F | F |
| Hexachlorocyclopentadiene | 25 | 26 | 20 - 109 | 3 | 50 | | |
| Hexachloroethane | 29 | 31 | 31 - 88 | 5 | 50 | F | |
| Indeno[1,2,3-cd]pyrene | 46 | 47 | 36 - 133 | 2 | 50 | | |
| Isophorone | 36 | 38 | 37 - 106 | 5 | 50 | F | |
| 2-Methylnaphthalene | 35 | 37 | 39 - 104 | 5 | 50 | F | F |
| 2-Methylphenol | 33 | 38 | 38 - 107 | 14 | 50 | F | |
| 3 & 4 Methylphenol | 36 | 38 | 37 - 106 | 7 | 50 | F | |
| Naphthalene | 32 | 34 | 34 - 97 | 5 | 50 | F | |
| 2-Nitroaniline | 46 | 48 | 38 - 124 | 5 | 50 | J | J |
| 3-Nitroaniline | 43 | 44 | 19 - 118 | 3 | 50 | J | J |
| 4-Nitroaniline | 43 | 45 | 32 - 130 | 5 | 50 | J | J |
| Nitrobenzene | 32 | 34 | 33 - 106 | 6 | 50 | F | |
| 2-Nitrophenol | 31 | 34 | 38 - 104 | 8 | 50 | F | F |
| 4-Nitrophenol | 39 | 45 | 21 - 132 | 13 | 50 | J | J |
| N-Nitrosodi-n-propylamine | 35 | 38 | 24 - 108 | 9 | 50 | | |
| N-Nitrosodiphenylamine | 44 | 46 | 16 - 113 | 4 | 50 | | |
| Pentachlorophenol | 32 | 34 | 27 - 116 | 4 | 50 | J | J |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 680-20904-1 | Analysis Batch: 680-56877 | Instrument ID: GC/MS SemiVolatiles - E |
| Client Matrix: | Solid | Prep Batch: 680-56736 | Lab File ID: e3933.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.06 g |
| Date Analyzed: | 10/09/2006 1321 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | Injection Volume: |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 680-20904-1 | Analysis Batch: 680-56877 | Instrument ID: GC/MS SemiVolatiles - E |
| Client Matrix: | Solid | Prep Batch: 680-56736 | Lab File ID: e3934.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.02 g |
| Date Analyzed: | 10/09/2006 1343 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/06/2006 0815 | | Injection Volume: |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Phenanthrene | 42 | 42 | 47 - 114 | 2 | 50 | F | F |
| Phenol | 34 | 37 | 34 - 98 | 11 | 50 | | |
| Pyrene | 40 | 41 | 36 - 128 | 4 | 50 | | |
| 1,2,4-Trichlorobenzene | 32 | 34 | 36 - 98 | 8 | 50 | F | F |
| 2,4,5-Trichlorophenol | 46 | 48 | 46 - 116 | 6 | 50 | | |
| 2,4,6-Trichlorophenol | 40 | 42 | 44 - 113 | 5 | 50 | F | F |

| Surrogate | MS % Rec | | MSD % Rec | Acceptance Limits |
|---|---|---|---|---|
| 2-Fluorobiphenyl | 40 | | 41 | 38 - 104 |
| 2-Fluorophenol | 35 | X | 39 | 36 - 101 |
| Nitrobenzene-d5 | 33 | | 35 | 33 - 94 |
| Phenol-d5 | 36 | X | 38 | 38 - 102 |
| Terphenyl-d14 | 42 | | 44 | 40 - 129 |
| 2,4,6-Tribromophenol | 52 | | 53 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1321
Date Prepared: 10/06/2006 0815

Units: ug/Kg

MSD Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1343
Date Prepared: 10/06/2006 0815

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0 | U | 3870 | 3880 | 1470 | | 1500 | |
| Acenaphthylene | 0.0 | U | 3870 | 3880 | 1560 | F | 1620 | |
| Anthracene | 0.0 | U | 3870 | 3880 | 1650 | F | 1710 | F |
| Benzidine | 0.0 | U | 3870 | 3880 | 649 | J | 685 | J |
| Benzo[a]anthracene | 0.0 | U | 3870 | 3880 | 1780 | | 1840 | |
| Benzo[a]pyrene | 0.0 | U | 3870 | 3880 | 2020 | | 2050 | |
| Benzo[b]fluoranthene | 0.0 | U | 3870 | 3880 | 1780 | | 1960 | |
| Benzo[g,h,i]perylene | 0.0 | U | 3870 | 3880 | 1910 | | 1950 | |
| Benzoic acid | 0.0 | U | 3870 | 3880 | 91.7 | U F | 105 | U F |
| Benzo[k]fluoranthene | 0.0 | U | 3870 | 3880 | 2020 | | 1960 | |
| Benzyl alcohol | 0.0 | U | 3870 | 3880 | 1290 | | 1410 | |
| Bis(2-chloroethoxy)methane | 0.0 | U | 3870 | 3880 | 1420 | F | 1520 | |
| Bis(2-chloroethyl)ether | 0.0 | U | 3870 | 3880 | 1060 | F | 1220 | |
| bis(chloroisopropyl) ether | 0.0 | U | 3870 | 3880 | 1330 | | 1420 | |
| Bis(2-ethylhexyl) phthalate | 0.0 | U | 3870 | 3880 | 1900 | | 1900 | |
| 4-Bromophenyl phenyl ether | 0.0 | U | 3870 | 3880 | 1480 | | 1520 | |
| Butyl benzyl phthalate | 0.0 | U | 3870 | 3880 | 1760 | | 1810 | |
| 4-Chloroaniline | 0.0 | U | 3870 | 3880 | 1370 | | 1430 | |
| 4-Chloro-3-methylphenol | 0.0 | U | 3870 | 3880 | 1680 | | 1790 | |
| 2-Chloronaphthalene | 0.0 | U | 3870 | 3880 | 1430 | F | 1490 | F |
| 2-Chlorophenol | 0.0 | U | 3870 | 3880 | 1240 | F | 1350 | F |
| 4-Chlorophenyl phenyl ether | 0.0 | U | 3870 | 3880 | 1670 | | 1700 | |
| Chrysene | 0.0 | U | 3870 | 3880 | 1830 | | 1850 | |
| Dibenz(a,h)anthracene | 0.0 | U | 3870 | 3880 | 1900 | | 1940 | |
| Dibenzofuran | 0.0 | U | 3870 | 3880 | 1560 | F | 1590 | F |
| 1,2-Dichlorobenzene | 0.0 | U | 3870 | 3880 | 1140 | F | 1210 | F |
| 1,3-Dichlorobenzene | 0.0 | U | 3870 | 3880 | 1070 | F | 1140 | F |
| 1,4-Dichlorobenzene | 0.0 | U | 3870 | 3880 | 1070 | F | 1110 | F |
| 3,3'-Dichlorobenzidine | 0.0 | U | 3870 | 3880 | 1480 | | 1560 | |
| 2,4-Dichlorophenol | 0.0 | U | 3870 | 3880 | 1440 | F | 1450 | F |
| Diethyl phthalate | 0.0 | U | 3870 | 3880 | 1770 | | 1800 | |
| 2,4-Dimethylphenol | 0.0 | U | 3870 | 3880 | 1270 | F | 1320 | F |
| Dimethyl phthalate | 0.0 | U | 3870 | 3880 | 1660 | | 1720 | |
| Di-n-butyl phthalate | 0.0 | U | 3870 | 3880 | 1630 | | 1670 | |
| 4,6-Dinitro-o-cresol | 0.0 | U | 3870 | 3880 | 1110 | J | 1250 | J |
| 2,4-Dinitrophenol | 0.0 | U | 3870 | 3880 | 548 | J | 468 | J |
| 2,4-Dinitrotoluene | 0.0 | U | 3870 | 3880 | 1650 | | 1750 | |
| 2,6-Dinitrotoluene | 0.0 | U | 3870 | 3880 | 1590 | | 1680 | |
| Di-n-octyl phthalate | 0.0 | U | 3870 | 3880 | 1940 | | 1940 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-56736**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1321
Date Prepared: 10/06/2006 0815

Units: ug/Kg

MSD Lab Sample ID: 680-20904-1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1343
Date Prepared: 10/06/2006 0815

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 13.5 | U | 3870 | 3880 | 1740 | | 1810 | |
| Fluorene | 0.0 | U | 3870 | 3880 | 1680 | | 1700 | |
| Hexachlorobenzene | 0.0 | U | 3870 | 3880 | 1720 | F | 1780 | |
| Hexachlorobutadiene | 0.0 | U | 3870 | 3880 | 1470 | F | 1540 | F |
| Hexachlorocyclopentadiene | 0.0 | U | 3870 | 3880 | 980 | | 1010 | |
| Hexachloroethane | 0.0 | U | 3870 | 3880 | 1130 | F | 1180 | |
| Indeno[1,2,3-cd]pyrene | 0.0 | U | 3870 | 3880 | 1790 | | 1820 | |
| Isophorone | 0.0 | U | 3870 | 3880 | 1380 | F | 1460 | |
| 2-Methylnaphthalene | 0.0 | U | 3870 | 3880 | 1370 | F | 1440 | F |
| 2-Methylphenol | 0.0 | U | 3870 | 3880 | 1270 | F | 1470 | |
| 3 & 4 Methylphenol | 0.0 | U | 3870 | 3880 | 1380 | F | 1470 | |
| Naphthalene | 0.0 | U | 3870 | 3880 | 1250 | F | 1320 | |
| 2-Nitroaniline | 0.0 | U | 3870 | 3880 | 1770 | J | 1870 | J |
| 3-Nitroaniline | 0.0 | U | 3870 | 3880 | 1670 | J | 1710 | J |
| 4-Nitroaniline | 0.0 | U | 3870 | 3880 | 1670 | J | 1760 | J |
| Nitrobenzene | 0.0 | U | 3870 | 3880 | 1220 | F | 1300 | |
| 2-Nitrophenol | 0.0 | U | 3870 | 3880 | 1200 | F | 1310 | F |
| 4-Nitrophenol | 0.0 | U | 3870 | 3880 | 1520 | J | 1730 | J |
| N-Nitrosodi-n-propylamine | 0.0 | U | 3870 | 3880 | 1340 | | 1470 | |
| N-Nitrosodiphenylamine | 0.0 | U | 3870 | 3880 | 1710 | | 1770 | |
| Pentachlorophenol | 0.0 | U | 3870 | 3880 | 1260 | J | 1300 | J |
| Phenanthrene | 0.0 | U | 3870 | 3880 | 1610 | F | 1640 | F |
| Phenol | 0.0 | U | 3870 | 3880 | 1300 | | 1450 | |
| Pyrene | 21.4 | U | 3870 | 3880 | 1540 | | 1600 | |
| 1,2,4-Trichlorobenzene | 0.0 | U | 3870 | 3880 | 1230 | F | 1330 | F |
| 2,4,5-Trichlorophenol | 0.0 | U | 3870 | 3880 | 1760 | | 1870 | |
| 2,4,6-Trichlorophenol | 0.0 | U | 3870 | 3880 | 1530 | F | 1610 | F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56906**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-56906/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1539
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56877
Prep Batch: 680-56906
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3939.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56906**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-56906/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1539
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56877
Prep Batch: 680-56906
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3939.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 78 | 38 - 104 |
| 2-Fluorophenol | 84 | 36 - 101 |
| Nitrobenzene-d5 | 76 | 33 - 94 |
| Phenol-d5 | 78 | 38 - 102 |
| Terphenyl-d14 | 75 | 40 - 129 |
| 2,4,6-Tribromophenol | 84 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56906**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-56906/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2006 0904
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56955
Prep Batch: 680-56906
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3950.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2480 | 74 | 36 - 108 | |
| Acenaphthylene | 3330 | 2680 | 80 | 41 - 112 | |
| Anthracene | 3330 | 2530 | 76 | 46 - 115 | |
| Benzidine | 3330 | 318 | 10 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 2800 | 84 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3250 | 97 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 3050 | 91 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 3060 | 92 | 41 - 122 | |
| Benzoic acid | 3330 | 470 | 14 | 10 - 94 | J |
| Benzo[k]fluoranthene | 3330 | 3010 | 90 | 36 - 124 | |
| Benzyl alcohol | 3330 | 2780 | 83 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2900 | 87 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 2520 | 76 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 2620 | 79 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2880 | 86 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2380 | 71 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 2740 | 82 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 1210 | 36 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 2940 | 88 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2570 | 77 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 2620 | 78 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2710 | 81 | 42 - 111 | |
| Chrysene | 3330 | 2750 | 83 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 3030 | 91 | 41 - 124 | |
| Dibenzofuran | 3330 | 2580 | 77 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2290 | 69 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2180 | 65 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2160 | 65 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 1440 | 43 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 2700 | 81 | 43 - 108 | |
| Diethyl phthalate | 3330 | 2900 | 87 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 2410 | 72 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 2820 | 85 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2540 | 76 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 1370 | 41 | 11 - 142 | J |
| 2,4-Dinitrophenol | 3330 | 421 | 13 | 1 - 131 | J |
| 2,4-Dinitrotoluene | 3330 | 2850 | 85 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 2870 | 86 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 2930 | 88 | 43 - 129 | |
| Fluoranthene | 3330 | 2740 | 82 | 41 - 124 | |
| Fluorene | 3330 | 2690 | 81 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 2780 | 83 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Lab Control Spike - Batch: 680-56906**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-56906/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2006 0904
Date Prepared: 10/09/2006 1420

Analysis Batch: 680-56955
Prep Batch: 680-56906
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e3950.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 2800 | 84 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 2580 | 78 | 20 - 109 | |
| Hexachloroethane | 3330 | 2320 | 70 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2820 | 85 | 36 - 133 | |
| Isophorone | 3330 | 2740 | 82 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2440 | 73 | 39 - 104 | |
| 2-Methylphenol | 3330 | 2590 | 78 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 2640 | 79 | 37 - 106 | |
| Naphthalene | 3330 | 2350 | 71 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 3260 | 98 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 1960 | 59 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2560 | 77 | 32 - 130 | |
| Nitrobenzene | 3330 | 2590 | 78 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2520 | 76 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 3210 | 96 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 2760 | 83 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 2690 | 81 | 16 - 113 | |
| Pentachlorophenol | 3330 | 1970 | 59 | 27 - 116 | |
| Phenanthrene | 3330 | 2460 | 74 | 47 - 114 | |
| Phenol | 3330 | 2640 | 79 | 34 - 98 | |
| Pyrene | 3330 | 2330 | 70 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2380 | 71 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 3070 | 92 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 2800 | 84 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 87 | 38 - 104 |
| 2-Fluorophenol | 93 | 36 - 101 |
| Nitrobenzene-d5 | 84 | 33 - 94 |
| Phenol-d5 | 90 | 38 - 102 |
| Terphenyl-d14 | 81 | 40 - 129 |
| 2,4,6-Tribromophenol | 102 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56899**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-56899/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 0945
Date Prepared: N/A

Analysis Batch: 680-56899
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A4.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 0.25 | U | 0.082 | 0.25 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 85 | 61 - 139 |

**Lab Control Spike - Batch: 680-56899**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56899/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 0907
Date Prepared: N/A

Analysis Batch: 680-56899
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A3.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1.00 | 0.973 | 97 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 92 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56930**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-56930/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1117
Date Prepared: N/A

Analysis Batch: 680-56930
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A6.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 5.0 | U | 1.6 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 89 | 61 - 139 |

**Lab Control Spike - Batch: 680-56930**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56930/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1039
Date Prepared: N/A

Analysis Batch: 680-56930
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A5.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 40.0 | 40.9 | 102 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 91 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56982**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-56982/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2006 0114
Date Prepared: N/A

Analysis Batch: 680-56982
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A28.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 5.0 | U | 1.6 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 81 | 61 - 139 |

**Lab Control Spike - Batch: 680-56982**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-56982/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/10/2006 0036
Date Prepared: N/A

Analysis Batch: 680-56982
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC09A27.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 40.0 | 39.0 | 97 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 86 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Method Blank - Batch: 680-56754**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: MB 680-56754/19-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1135
Date Prepared: 10/06/2006 0939

Analysis Batch: 680-56923
Prep Batch: 680-56754
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0090008.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.3 | U | 1.7 | 3.3 |
| Oil Range Organics (C20-C36) | 17 | U | 8.5 | 17 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 98 | 15 - 154 |

**Lab Control Spike - Batch: 680-56754**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: LCS 680-56754/20-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/09/2006 1153
Date Prepared: 10/06/2006 0939

Analysis Batch: 680-56923
Prep Batch: 680-56754
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0090009.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 33.8 | 102 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 100 | 15 - 154 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: **9050361, 01.01**

P.0. NA

Chain of Custody Number [1]:100520062

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: SS-17

Client Name: USACE

Collected by: T. Lucero

| Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270C | 8015B Carbon Chain | Percent Moisture | | | | | Ambient Blank Lot Control Number | Equipment Blank Lot Control Number | Trip Blank Lot Control Number | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | | | |
| FLSS17-L13-B1R | FLSS17-L13-B1R | 05102006 | 0910 | 0.00 - 1.00 | N | 1 | SO | 7 | [1] | [1] | [1] | [1] | | | | | | | | 2 |
| FLSS17-L13-B2R | FLSS17-L13-B2R | 05102006 | 0920 | 0.00 - 1.00 | N | 1 | SO | 7 | [1] | [1] | [1] | [1] | | | | | | | | 2 |
| FLSS17-L13-B3R | FLSS17-L13-B3R | 05102006 | 0930 | 0.00 - 1.00 | N | 1 | SO | 7 | [1] | [1] | [1] | [1] | | | | | | | | 2 |
| FLSS17-L13-B4R | FLSS17-L13-B4R | 5102006 | 0940 | 0.00 - 1.00 | N | 1 | SO | 7 | [1] | [1] | [1] | [1] | | | | | | | | 2 |
| Trip Blank | Field QC | | 0910 | - | TB | | AQ | 1 | [1] | | | | | | | | | | | 2 |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | - | | | | | | | | | | | | | | | | |
| | | | | - | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

COMMENTS: **Attention Sample Receiving**
**STL**
**5102 La Roche Ave**
**Savanna GA** **EMAIL RESULTS TO ;RRENVIRONMENTAL@ZIANET.COM;KEVING@ZIANET.COM**

RUSH!!!

**Custody Transfers Prior to Receipt by Laboratory**

| Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|
| 1. [signature] | 10/05/2006 | 1600 | 1. KL | 10/6/06 | 0967 |
| 2. | | | 2. | | |
| 3. | | | 3. | | |

**Sample Delivery Details / Laboratory Receipt**

Delivered Directly to Lab: Shipped No.:

Method of Shipment: FEDEX Airbill Number:

Analytical Lab: STL Delivery Location: Savanna GA

Lab Recipient: Delivery Date/Time:

TEMP.: 0.1

680-20904

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: 9040238.11.01

P.0. NA

Chain of Custody Number [1]:100520063

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | |
| WPOL-SW~~1~~ 20 | W-POL | 5-Oct-06 | 11:00 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW21 | W-POL | 5-Oct-06 | 11:15 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW~~3~~ 22 | W-POL | 5-Oct-06 | 11:30 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW~~4~~ 24 | W-POL | 5-Oct-06 | 11:45 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| Trip Blank | | | | | | TB | | | 1 | [1] | | | | | | | | Trip Blank | 3 |

*Per Tony Lucero to BHATE Sample ID Corrections 10/6/06 A. Ragnaldson

STL
5102 La Roche Ave
Savanna GA 31404

Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, keving@zianet.com

RUSH

**Custody Transfers Prior to Receipt by Laboratory**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/05/2006 | @ 1600 | [signature] | 10/6/06 | 0847 |
| 2. | | | | | | |
| 3. | | | | | | |

**Sample Delivery Details / Laboratory Receipt**

| | | | |
|---|---|---|---|
| Delivered Directly to Lab: | | Shipped No.: | |
| Method of Shipment: | Fed Ex | Airbill Number: | |
| Analytical Lab: | STL | Delivery Location: | Savanna GA |
| Lab Recipient: | | Delivery Date/Time: | |

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP.: 0.1

680-20904

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: 9040238.11.01

P.O. NA

Chain of Custody Number [1]: 100520063

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (20 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | |
| WPOL-SW20 | W-POL | 5-Oct-06 | 11:00 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW21 | W-POL | 5-Oct-06 | 11:15 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW22 | W-POL | 5-Oct-06 | 11:30 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| WPOL-SW24 | W-POL | 5-Oct-06 | 11:45 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 3 |
| Trip Blank | | | | | | TB | | | 1 | [1] | | | | | | | | Trip Blank | 3 |

STL
5102 La Roche Ave
Savanna GA 31404

**Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, keving@zianet.com**

**Custody Transfers Prior to Receipt by Laboratory**

| Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|
| 1. | 10/05/2006 | @ 1600 | 1. | | |
| 2. | | | 2. | | |
| 3. | | | 3. | | |

**Sample Delivery Details / Laboratory Receipt**

| | | | |
|---|---|---|---|
| Delivered Directly to Lab: | | Shipped No: | |
| Method of Shipment: | Fed Ex | Airbill Number: | |
| Analytical Lab: | STL | Delivery Location: | Savanna GA |
| Lab Recipient: | | Delivery Date/Time: | |

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: 9040238.11.01

P.0. NA

Chain of Custody Number [1]:100520064

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | |
| WPOL-~~SWT~~ Stockpile * | W-POL | 5-Oct-06 | 1330 | 0' | 1' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 4 |
| Trip Blank | | | | | | TB | | | 1 | [1] | | | | | | | | Trip Blank | 4 |

* Per Tony Lucero @ BHATE Sample ID on COC should match containers as WPOL - Stockpile 10/6/06 d. Reynolds

STL
5102 La Roche Ave
Savanna GA 31404

Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, keving@zianet.com

**Custody Transfers Prior to Receipt by Laboratory**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/05/2006 | @ 1600 | KL | 10/6/06 | 0847 |
| 2. | | | | | | |
| 3. | | | | | | |

**Sample Delivery Details / Laboratory Receipt**

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: Fed Ex Airbill Number: _____

Analytical Lab: STL Delivery Location: Savanna GA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP.: 0.1

680-20904

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Project Number: 9040238.11.01

P.O. NA

Chain of Custody Number [1]: 100520064

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (30 Character Max) | ERPIMS LOCID (15 Character Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Sample Analysis Requested [5]: Number of containers | VOCs 8260B+Elements | SVOCs 8270 | 8015B Carbon Chain | | | | | | Quality Assurance Samples [6]: MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WPOL-Stockpile | W-POL | 5-Oct-06 | 1330 | 0' | 1' | N | 1 | SO | 7 | 16 | 16 | 16 | | | | | | Confirmation stockpile Samples | 4 |
| Trip Blank | | | | | | TB | | | 1 | 16 | | | | | | | | Trip Blank | 4 |

STL
5102 La Roche Ave
Savanna GA 31404

Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, kevinz@zianet.com

RUSH

Custody Transfers Prior to Receipt by Laboratory

| Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|
| 1. [signature] | 10/05/2006 @ 1600 | | 1. | | |
| 2. | | | 2. | | |
| 3. | | | 3. | | |

Sample Delivery Details / Laboratory Receipt

Delivered Directly to Lab: _____ Shipped No.: _____

Method of Shipment: Fed Ex Airbill Number: _____

Analytical Lab: STL Delivery Location: Savanna GA

Lab Recipient: Delivery Date/Time:

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-e) Sample, FD = Field Duplicate (-e) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bhate Engineering

Job Number: 680-20904-1
Sdg Number: HOLL010

**Login Number: 20904**

| Question | T/F/NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | NA | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | False | -11 ID on COC should read "WPOL-Stockpile, per client T. Lucero |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | NA | |
| Samples do not require splitting or compositing. | NA | |

# ANALYTICAL REPORT

Job Number: 680-21081-1

SDG Number: HOLL011

Job Description: HOLLOMAN AFB

For:
Bhate Engineering
1608 13th Avenue South
Suite 300
Birmingham, AL 35205

Attention: Judy Solomon

Linda Wolfe
Project Manager I
lwolfe@stl-inc.com
10/17/2006

Project Manager: Linda Wolfe

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the STL Project Manager who signed this report.

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **680-21081-1** | **WPOL-SW25** | | | | | |
| Benzo[g,h,i]perylene | | 29 | J | 390 | ug/Kg | 8270C |
| Diesel Range Organics [C10-C28] | | 20 | | 3.9 | mg/Kg | 8015B |
| Oil Range Organics (C20-C36) | | 70 | | 20 | mg/Kg | 8015B |
| Percent Moisture | | 16 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 84 | | 1.0 | % | PercentMoisture |
| **680-21081-2** | **WPOL-SW26** | | | | | |
| n-Butylbenzene | | 21000 | | 1600 | ug/Kg | 8260B |
| sec-Butylbenzene | | 10000 | | 1600 | ug/Kg | 8260B |
| Ethylbenzene | | 4900 | | 1600 | ug/Kg | 8260B |
| Isopropylbenzene | | 3500 | | 1600 | ug/Kg | 8260B |
| p-Isopropyltoluene | | 9800 | | 1600 | ug/Kg | 8260B |
| Naphthalene | | 17000 | | 1600 | ug/Kg | 8260B |
| N-Propylbenzene | | 6900 | | 1600 | ug/Kg | 8260B |
| 1,2,4-Trimethylbenzene | | 48000 | | 1600 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | | 8200 | | 1600 | ug/Kg | 8260B |
| m-Xylene & p-Xylene | | 2000 | J | 3200 | ug/Kg | 8260B |
| 2-Methylnaphthalene | | 9000 | | 4800 | ug/Kg | 8270C |
| Naphthalene | | 4000 | J | 4800 | ug/Kg | 8270C |
| Gasoline Range Organics (GRO)-C6-C10 | | 830 | | 80 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 2800 | | 48 | mg/Kg | 8015B |
| Percent Moisture | | 31 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 69 | | 1.0 | % | PercentMoisture |
| **680-21081-3** | **WPOL-SW27** | | | | | |
| n-Butylbenzene | | 9200 | | 750 | ug/Kg | 8260B |
| sec-Butylbenzene | | 4800 | | 750 | ug/Kg | 8260B |
| Ethylbenzene | | 2100 | | 750 | ug/Kg | 8260B |
| Isopropylbenzene | | 1500 | | 750 | ug/Kg | 8260B |
| p-Isopropyltoluene | | 5200 | | 750 | ug/Kg | 8260B |
| Naphthalene | | 7600 | | 750 | ug/Kg | 8260B |
| N-Propylbenzene | | 3000 | | 750 | ug/Kg | 8260B |
| 1,2,4-Trimethylbenzene | | 22000 | | 750 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | | 5000 | | 750 | ug/Kg | 8260B |
| m-Xylene & p-Xylene | | 860 | J | 1500 | ug/Kg | 8260B |
| Fluorene | | 100 | J | 470 | ug/Kg | 8270C |
| 2-Methylnaphthalene | | 6700 | | 470 | ug/Kg | 8270C |
| Naphthalene | | 2600 | | 470 | ug/Kg | 8270C |
| Gasoline Range Organics (GRO)-C6-C10 | | 700 | | 75 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 1800 | | 47 | mg/Kg | 8015B |
| Percent Moisture | | 29 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 71 | | 1.0 | % | PercentMoisture |

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Lab Sample ID<br>Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **680-21081-4** | **WPOL-SW28** | | | | | |
| n-Butylbenzene | | 2600 | | 270 | ug/Kg | 8260B |
| sec-Butylbenzene | | 1600 | | 270 | ug/Kg | 8260B |
| Ethylbenzene | | 330 | | 270 | ug/Kg | 8260B |
| 2-Hexanone | | 1000 | J | 1300 | ug/Kg | 8260B |
| Methylene Chloride | | 110 | J | 270 | ug/Kg | 8260B |
| Isopropylbenzene | | 310 | | 270 | ug/Kg | 8260B |
| p-Isopropyltoluene | | 1500 | | 270 | ug/Kg | 8260B |
| Naphthalene | | 3700 | | 270 | ug/Kg | 8260B |
| N-Propylbenzene | | 620 | | 270 | ug/Kg | 8260B |
| 1,2,4-Trimethylbenzene | | 2200 | | 270 | ug/Kg | 8260B |
| 1,3,5-Trimethylbenzene | | 690 | | 270 | ug/Kg | 8260B |
| m-Xylene & p-Xylene | | 110 | J | 540 | ug/Kg | 8260B |
| 1-Chlorohexane | | 160 | J | 270 | ug/Kg | 8260B |
| 2-Methylnaphthalene | | 2800 | | 470 | ug/Kg | 8270C |
| Naphthalene | | 1100 | | 470 | ug/Kg | 8270C |
| Gasoline Range Organics (GRO)-C6-C10 | | 620 | | 67 | mg/Kg | 8015B |
| Diesel Range Organics [C10-C28] | | 660 | | 9.4 | mg/Kg | 8015B |
| Percent Moisture | | 30 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 70 | | 1.0 | % | PercentMoisture |

# METHOD SUMMARY

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | STL SAV | SW846 8270C | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | STL SAV | SW846 8015B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | STL SAV | SW846 8015B | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Percent Moisture | STL SAV | EPA PercentMoisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Purge-and-Trap | STL SAV | | SW846 5030B |

## LAB REFERENCES:

STL SAV = STL Savannah

## METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-21081-1 | WPOL-SW25 | Solid | 10/12/2006 0915 | 10/13/2006 0845 |
| 680-21081-2 | WPOL-SW26 | Solid | 10/12/2006 0930 | 10/13/2006 0845 |
| 680-21081-3 | WPOL-SW27 | Solid | 10/12/2006 0945 | 10/13/2006 0845 |
| 680-21081-4 | WPOL-SW28 | Solid | 10/12/2006 1000 | 10/13/2006 0845 |
| 680-21081-5TB | Trip Blank | Water | 10/12/2006 0000 | 10/13/2006 0845 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW25**

Lab Sample ID: 680-21081-1
Client Matrix: Solid
% Moisture: 15.8
Date Sampled: 10/12/2006 0915
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/13/2006 1547
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57356
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1099.d
Initial Weight/Volume: 5.2 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 57 | U | 3.4 | 57 |
| Acetonitrile | | 230 | U | 32 | 230 |
| Acrolein | | 110 | U | 13 | 110 |
| Bromobenzene | | 5.7 | U | 1.1 | 5.7 |
| Bromochloromethane | | 5.7 | U | 1.1 | 5.7 |
| Acrylonitrile | | 110 | U | 18 | 110 |
| Benzene | | 5.7 | U | 0.98 | 5.7 |
| Dichlorobromomethane | | 5.7 | U | 1.1 | 5.7 |
| Bromoform | | 5.7 | U | 2.5 | 5.7 |
| Methyl bromide | | 5.7 | U | 1.5 | 5.7 |
| n-Butylbenzene | | 5.7 | U | 1.1 | 5.7 |
| Methyl Ethyl Ketone | | 29 | U | 4.6 | 29 |
| Carbon disulfide | | 5.7 | U | 1.1 | 5.7 |
| sec-Butylbenzene | | 5.7 | U | 1.3 | 5.7 |
| Carbon tetrachloride | | 5.7 | U | 1.0 | 5.7 |
| tert-Butylbenzene | | 5.7 | U | 1.4 | 5.7 |
| Chlorobenzene | | 5.7 | U | 0.79 | 5.7 |
| Chloroethane | | 5.7 | U | 1.7 | 5.7 |
| Chloroform | | 5.7 | U | 1.0 | 5.7 |
| Methyl chloride | | 5.7 | U | 0.80 | 5.7 |
| Allyl chloride | | 5.7 | U | 1.4 | 5.7 |
| Chlorodibromomethane | | 5.7 | U | 1.3 | 5.7 |
| 1,2-Dibromo-3-Chloropropane | | 11 | U | 5.3 | 11 |
| 1,2-Dibromoethane | | 5.7 | U | 1.6 | 5.7 |
| 2-Chlorotoluene | | 5.7 | U | 1.6 | 5.7 |
| Methylene bromide | | 5.7 | U | 1.5 | 5.7 |
| trans-1,4-Dichloro-2-butene | | 11 | U | 4.6 | 11 |
| 4-Chlorotoluene | | 5.7 | U | 0.89 | 5.7 |
| Dichlorodifluoromethane | | 5.7 | U | 2.9 | 5.7 |
| 1,1-Dichloroethane | | 5.7 | U | 1.1 | 5.7 |
| 1,2-Dichloroethane | | 5.7 | U | 1.4 | 5.7 |
| 1,1-Dichloroethylene | | 5.7 | U | 1.3 | 5.7 |
| o-Dichlorobenzene | | 5.7 | U | 2.1 | 5.7 |
| trans-1,2-Dichloroethylene | | 5.7 | U | 1.3 | 5.7 |
| m-Dichlorobenzene | | 5.7 | U | 1.3 | 5.7 |
| 1,2-Dichloropropane | | 5.7 | U | 1.5 | 5.7 |
| cis-1,3-Dichloropropene | | 5.7 | U | 1.0 | 5.7 |
| p-Dichlorobenzene | | 5.7 | U | 1.6 | 5.7 |
| trans-1,3-Dichloropropene | | 5.7 | U | 1.3 | 5.7 |
| Ethylbenzene | | 5.7 | U | 0.99 | 5.7 |
| Ethyl methacrylate | | 5.7 | U | 0.88 | 5.7 |
| 2-Hexanone | | 29 | U | 6.2 | 29 |
| Methyl iodide | | 5.7 | U | 1.1 | 5.7 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW25**

Lab Sample ID: 680-21081-1
Client Matrix: Solid
% Moisture: 15.8
Date Sampled: 10/12/2006 0915
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/13/2006 1547
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57356
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1099.d
Initial Weight/Volume: 5.2 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.7 | U | 1.0 | 5.7 |
| Methacrylonitrile | | 110 | U | 18 | 110 |
| Methylene Chloride | | 5.7 | U | 1.8 | 5.7 |
| Methyl methacrylate | | 5.7 | U | 1.9 | 5.7 |
| 1,3-Dichloropropane | | 5.7 | U | 1.4 | 5.7 |
| 4-Methyl-2-pentanone (MIBK) | | 29 | U | 6.6 | 29 |
| Pentachloroethane | | 29 | U | 5.3 | 29 |
| 2,2-Dichloropropane | | 5.7 | U | 1.4 | 5.7 |
| Propionitrile | | 110 | U | 26 | 110 |
| 1,1-Dichloropropene | | 5.7 | U | 1.6 | 5.7 |
| Styrene | | 5.7 | U | 0.97 | 5.7 |
| 1,1,1,2-Tetrachloroethane | | 5.7 | U | 1.6 | 5.7 |
| 1,1,2,2-Tetrachloroethane | | 5.7 | U | 1.1 | 5.7 |
| Tetrachloroethylene | | 5.7 | U | 1.1 | 5.7 |
| Toluene | | 5.7 | U | 1.1 | 5.7 |
| Hexachlorobutadiene | | 5.7 | U | 1.8 | 5.7 |
| 1,1,1-Trichloroethane | | 5.7 | U | 0.97 | 5.7 |
| 1,1,2-Trichloroethane | | 5.7 | U | 1.4 | 5.7 |
| Trichloroethylene | | 5.7 | U | 1.4 | 5.7 |
| Isopropylbenzene | | 5.7 | U | 1.1 | 5.7 |
| Trichlorofluoromethane | | 5.7 | U | 1.6 | 5.7 |
| 1,2,3-Trichloropropane | | 5.7 | U | 3.1 | 5.7 |
| p-Isopropyltoluene | | 5.7 | U | 1.4 | 5.7 |
| Vinyl acetate | | 11 | U | 2.2 | 11 |
| Vinyl chloride | | 5.7 | U | 1.1 | 5.7 |
| Methyl tert-butyl ether | | 57 | U | 2.1 | 57 |
| Naphthalene | | 5.7 | U | 3.9 | 5.7 |
| N-Propylbenzene | | 5.7 | U | 1.4 | 5.7 |
| 1,2,3-Trichlorobenzene | | 5.7 | U | 1.1 | 5.7 |
| 1,2,4-Trichlorobenzene | | 5.7 | U | 2.5 | 5.7 |
| Freon 113 | | 5.7 | U | 1.1 | 5.7 |
| 1,2,4-Trimethylbenzene | | 5.7 | U | 1.1 | 5.7 |
| 1,3,5-Trimethylbenzene | | 5.7 | U | 1.5 | 5.7 |
| o-Xylene | | 5.7 | U | 1.6 | 5.7 |
| m-Xylene & p-Xylene | | 11 | U | 2.3 | 11 |
| 1-Chlorohexane | | 5.7 | U | 0.89 | 5.7 |
| Hexane | | 5.7 | U | 2.6 | 5.7 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 83 | 68 - 121 |
| Dibromofluoromethane | 103 | 66 - 127 |
| Toluene-d8 (Surr) | 90 | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW26**

Lab Sample ID: 680-21081-2
Client Matrix: Solid
% Moisture: 30.9
Date Sampled: 10/12/2006 0930
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 200
Date Analyzed: 10/13/2006 1607
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57457
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1100.d
Initial Weight/Volume: 4.5 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 16000 | U | 970 | 16000 |
| Acetonitrile | | 64000 | U | 9000 | 64000 |
| Acrolein | | 32000 | U | 3500 | 32000 |
| Bromobenzene | | 1600 | U | 300 | 1600 |
| Bromochloromethane | | 1600 | U | 310 | 1600 |
| Acrylonitrile | | 32000 | U | 5100 | 32000 |
| Benzene | | 1600 | U | 280 | 1600 |
| Dichlorobromomethane | | 1600 | U | 320 | 1600 |
| Bromoform | | 1600 | U | 710 | 1600 |
| Methyl bromide | | 1600 | U | 420 | 1600 |
| Methyl Ethyl Ketone | | 8000 | U | 1300 | 8000 |
| n-Butylbenzene | | 21000 | | 320 | 1600 |
| Carbon disulfide | | 1600 | U | 320 | 1600 |
| sec-Butylbenzene | | 10000 | | 350 | 1600 |
| Carbon tetrachloride | | 1600 | U | 290 | 1600 |
| tert-Butylbenzene | | 1600 | U | 390 | 1600 |
| Chlorobenzene | | 1600 | U | 220 | 1600 |
| Chloroethane | | 1600 | U | 480 | 1600 |
| Chloroform | | 1600 | U | 280 | 1600 |
| Methyl chloride | | 1600 | U | 230 | 1600 |
| Allyl chloride | | 1600 | U | 390 | 1600 |
| Chlorodibromomethane | | 1600 | U | 350 | 1600 |
| 1,2-Dibromo-3-Chloropropane | | 3200 | U | 1500 | 3200 |
| 1,2-Dibromoethane | | 1600 | U | 450 | 1600 |
| 2-Chlorotoluene | | 1600 | U | 450 | 1600 |
| Methylene bromide | | 1600 | U | 420 | 1600 |
| trans-1,4-Dichloro-2-butene | | 3200 | U | 1300 | 3200 |
| 4-Chlorotoluene | | 1600 | U | 250 | 1600 |
| Dichlorodifluoromethane | | 1600 | U | 800 | 1600 |
| 1,1-Dichloroethane | | 1600 | U | 320 | 1600 |
| 1,2-Dichloroethane | | 1600 | U | 390 | 1600 |
| 1,1-Dichloroethylene | | 1600 | U | 350 | 1600 |
| o-Dichlorobenzene | | 1600 | U | 580 | 1600 |
| trans-1,2-Dichloroethylene | | 1600 | U | 350 | 1600 |
| m-Dichlorobenzene | | 1600 | U | 350 | 1600 |
| 1,2-Dichloropropane | | 1600 | U | 420 | 1600 |
| cis-1,3-Dichloropropene | | 1600 | U | 290 | 1600 |
| p-Dichlorobenzene | | 1600 | U | 450 | 1600 |
| trans-1,3-Dichloropropene | | 1600 | U | 350 | 1600 |
| Ethylbenzene | | 4900 | | 280 | 1600 |
| Ethyl methacrylate | | 1600 | U | 250 | 1600 |
| 2-Hexanone | | 8000 | U | 1700 | 8000 |
| Methyl iodide | | 1600 | U | 320 | 1600 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW26**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-2 | | | Date Sampled: | 10/12/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 30.9 | Date Received: | 10/13/2006 0845 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-57457 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-57342 | | Lab File ID: | I1100.d |
| Dilution: | 200 | | | Initial Weight/Volume: | 4.5 g |
| Date Analyzed: | 10/13/2006 1607 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/13/2006 1043 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 1600 | U | 280 | 1600 |
| Methacrylonitrile | | 32000 | U | 5100 | 32000 |
| Methylene Chloride | | 1600 | U | 510 | 1600 |
| Methyl methacrylate | | 1600 | U | 530 | 1600 |
| 1,3-Dichloropropane | | 1600 | U | 390 | 1600 |
| 4-Methyl-2-pentanone (MIBK) | | 8000 | U | 1900 | 8000 |
| Pentachloroethane | | 8000 | U | 1500 | 8000 |
| 2,2-Dichloropropane | | 1600 | U | 390 | 1600 |
| Propionitrile | | 32000 | U | 7400 | 32000 |
| 1,1-Dichloropropene | | 1600 | U | 450 | 1600 |
| Styrene | | 1600 | U | 270 | 1600 |
| 1,1,1,2-Tetrachloroethane | | 1600 | U | 450 | 1600 |
| 1,1,2,2-Tetrachloroethane | | 1600 | U | 320 | 1600 |
| Tetrachloroethylene | | 1600 | U | 320 | 1600 |
| Toluene | | 1600 | U | 320 | 1600 |
| Hexachlorobutadiene | | 1600 | U | 510 | 1600 |
| 1,1,1-Trichloroethane | | 1600 | U | 270 | 1600 |
| 1,1,2-Trichloroethane | | 1600 | U | 390 | 1600 |
| Trichloroethylene | | 1600 | U | 390 | 1600 |
| Trichlorofluoromethane | | 1600 | U * | 450 | 1600 |
| Isopropylbenzene | | 3500 | | 320 | 1600 |
| 1,2,3-Trichloropropane | | 1600 | U | 870 | 1600 |
| p-Isopropyltoluene | | 9800 | | 390 | 1600 |
| Vinyl acetate | | 3200 | U | 610 | 3200 |
| Vinyl chloride | | 1600 | U | 300 | 1600 |
| Methyl tert-butyl ether | | 16000 | U | 580 | 16000 |
| Naphthalene | | 17000 | | 1100 | 1600 |
| N-Propylbenzene | | 6900 | | 390 | 1600 |
| 1,2,3-Trichlorobenzene | | 1600 | U | 320 | 1600 |
| 1,2,4-Trichlorobenzene | | 1600 | U | 710 | 1600 |
| Freon 113 | | 1600 | U | 320 | 1600 |
| 1,2,4-Trimethylbenzene | | 48000 | | 320 | 1600 |
| 1,3,5-Trimethylbenzene | | 8200 | | 420 | 1600 |
| o-Xylene | | 1600 | U | 450 | 1600 |
| m-Xylene & p-Xylene | | 2000 | J | 640 | 3200 |
| 1-Chlorohexane | | 1600 | U | 250 | 1600 |
| Hexane | | 1600 | U | 740 | 1600 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 105 | 68 - 121 |
| Dibromofluoromethane | 103 | 66 - 127 |
| Toluene-d8 (Surr) | 97 | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW27**

Lab Sample ID: 680-21081-3
Client Matrix: Solid
% Moisture: 29.5
Date Sampled: 10/12/2006 0945
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 10/13/2006 2109
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57457
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1110.d
Initial Weight/Volume: 4.7 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 7500 | U | 450 | 7500 |
| Acetonitrile | | 30000 | U | 4200 | 30000 |
| Acrolein | | 15000 | U | 1700 | 15000 |
| Bromobenzene | | 750 | U | 140 | 750 |
| Bromochloromethane | | 750 | U | 140 | 750 |
| Acrylonitrile | | 15000 | U | 2400 | 15000 |
| Benzene | | 750 | U | 130 | 750 |
| Dichlorobromomethane | | 750 | U | 150 | 750 |
| Bromoform | | 750 | U | 330 | 750 |
| Methyl bromide | | 750 | U | 200 | 750 |
| Methyl Ethyl Ketone | | 3800 | U | 600 | 3800 |
| n-Butylbenzene | | 9200 | | 150 | 750 |
| Carbon disulfide | | 750 | U | 150 | 750 |
| sec-Butylbenzene | | 4800 | | 170 | 750 |
| Carbon tetrachloride | | 750 | U | 130 | 750 |
| tert-Butylbenzene | | 750 | U | 180 | 750 |
| Chlorobenzene | | 750 | U | 100 | 750 |
| Chloroethane | | 750 | U | 230 | 750 |
| Chloroform | | 750 | U | 130 | 750 |
| Methyl chloride | | 750 | U | 110 | 750 |
| Allyl chloride | | 750 | U | 180 | 750 |
| Chlorodibromomethane | | 750 | U | 170 | 750 |
| 1,2-Dibromo-3-Chloropropane | | 1500 | U | 690 | 1500 |
| 1,2-Dibromoethane | | 750 | U | 210 | 750 |
| 2-Chlorotoluene | | 750 | U | 210 | 750 |
| Methylene bromide | | 750 | U | 200 | 750 |
| trans-1,4-Dichloro-2-butene | | 1500 | U | 600 | 1500 |
| 4-Chlorotoluene | | 750 | U | 120 | 750 |
| Dichlorodifluoromethane | | 750 | U | 380 | 750 |
| 1,1-Dichloroethane | | 750 | U | 150 | 750 |
| 1,2-Dichloroethane | | 750 | U | 180 | 750 |
| 1,1-Dichloroethylene | | 750 | U | 170 | 750 |
| o-Dichlorobenzene | | 750 | U | 270 | 750 |
| trans-1,2-Dichloroethylene | | 750 | U | 170 | 750 |
| m-Dichlorobenzene | | 750 | U | 170 | 750 |
| 1,2-Dichloropropane | | 750 | U | 200 | 750 |
| cis-1,3-Dichloropropene | | 750 | U | 140 | 750 |
| p-Dichlorobenzene | | 750 | U | 210 | 750 |
| trans-1,3-Dichloropropene | | 750 | U | 170 | 750 |
| Ethylbenzene | | 2100 | | 130 | 750 |
| Ethyl methacrylate | | 750 | U | 120 | 750 |
| 2-Hexanone | | 3800 | U | 810 | 3800 |
| Methyl iodide | | 750 | U | 150 | 750 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW27**

Lab Sample ID: 680-21081-3
Client Matrix: Solid
% Moisture: 29.5
Date Sampled: 10/12/2006 0945
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 100
Date Analyzed: 10/13/2006 2109
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57457
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1110.d
Initial Weight/Volume: 4.7 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 750 | U | 130 | 750 |
| Methacrylonitrile | | 15000 | U | 2400 | 15000 |
| Methylene Chloride | | 750 | U | 240 | 750 |
| Methyl methacrylate | | 750 | U | 250 | 750 |
| 1,3-Dichloropropane | | 750 | U | 180 | 750 |
| 4-Methyl-2-pentanone (MIBK) | | 3800 | U | 880 | 3800 |
| Pentachloroethane | | 3800 | U | 690 | 3800 |
| 2,2-Dichloropropane | | 750 | U | 180 | 750 |
| Propionitrile | | 15000 | U | 3500 | 15000 |
| 1,1-Dichloropropene | | 750 | U | 210 | 750 |
| Styrene | | 750 | U | 130 | 750 |
| 1,1,1,2-Tetrachloroethane | | 750 | U | 210 | 750 |
| 1,1,2,2-Tetrachloroethane | | 750 | U | 150 | 750 |
| Tetrachloroethylene | | 750 | U | 150 | 750 |
| Toluene | | 750 | U | 150 | 750 |
| Hexachlorobutadiene | | 750 | U | 240 | 750 |
| 1,1,1-Trichloroethane | | 750 | U | 130 | 750 |
| 1,1,2-Trichloroethane | | 750 | U | 180 | 750 |
| Trichloroethylene | | 750 | U | 180 | 750 |
| Trichlorofluoromethane | | 750 | U * | 210 | 750 |
| Isopropylbenzene | | 1500 | | 150 | 750 |
| 1,2,3-Trichloropropane | | 750 | U | 410 | 750 |
| p-Isopropyltoluene | | 5200 | | 180 | 750 |
| Vinyl acetate | | 1500 | U | 290 | 1500 |
| Vinyl chloride | | 750 | U | 140 | 750 |
| Methyl tert-butyl ether | | 7500 | U | 270 | 7500 |
| Naphthalene | | 7600 | | 510 | 750 |
| N-Propylbenzene | | 3000 | | 180 | 750 |
| 1,2,3-Trichlorobenzene | | 750 | U | 150 | 750 |
| 1,2,4-Trichlorobenzene | | 750 | U | 330 | 750 |
| Freon 113 | | 750 | U | 150 | 750 |
| 1,2,4-Trimethylbenzene | | 22000 | | 150 | 750 |
| 1,3,5-Trimethylbenzene | | 5000 | | 200 | 750 |
| o-Xylene | | 750 | U | 210 | 750 |
| m-Xylene & p-Xylene | | 860 | J | 300 | 1500 |
| 1-Chlorohexane | | 750 | U | 120 | 750 |
| Hexane | | 750 | U | 350 | 750 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 102 | 68 - 121 |
| Dibromofluoromethane | 100 | 66 - 127 |
| Toluene-d8 (Surr) | 101 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW28**

Lab Sample ID: 680-21081-4
Client Matrix: Solid
% Moisture: 29.7
Date Sampled: 10/12/2006 1000
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 10/13/2006 2129
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57457
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1111.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 2700 | U | 160 | 2700 |
| Acetonitrile | | 11000 | U | 1500 | 11000 |
| Acrolein | | 5400 | U | 590 | 5400 |
| Bromobenzene | | 270 | U | 50 | 270 |
| Bromochloromethane | | 270 | U | 51 | 270 |
| Acrylonitrile | | 5400 | U | 840 | 5400 |
| Benzene | | 270 | U | 46 | 270 |
| Dichlorobromomethane | | 270 | U | 54 | 270 |
| Bromoform | | 270 | U | 120 | 270 |
| Methyl bromide | | 270 | U | 70 | 270 |
| Methyl Ethyl Ketone | | 1300 | U | 210 | 1300 |
| n-Butylbenzene | | 2600 | | 53 | 270 |
| Carbon disulfide | | 270 | U | 54 | 270 |
| sec-Butylbenzene | | 1600 | | 59 | 270 |
| Carbon tetrachloride | | 270 | U | 48 | 270 |
| tert-Butylbenzene | | 270 | U | 64 | 270 |
| Chlorobenzene | | 270 | U | 37 | 270 |
| Chloroethane | | 270 | U | 81 | 270 |
| Chloroform | | 270 | U | 47 | 270 |
| Methyl chloride | | 270 | U | 38 | 270 |
| Allyl chloride | | 270 | U | 64 | 270 |
| Chlorodibromomethane | | 270 | U | 59 | 270 |
| 1,2-Dibromo-3-Chloropropane | | 540 | U | 250 | 540 |
| 1,2-Dibromoethane | | 270 | U | 75 | 270 |
| 2-Chlorotoluene | | 270 | U | 75 | 270 |
| Methylene bromide | | 270 | U | 70 | 270 |
| trans-1,4-Dichloro-2-butene | | 540 | U | 210 | 540 |
| 4-Chlorotoluene | | 270 | U | 42 | 270 |
| Dichlorodifluoromethane | | 270 | U | 130 | 270 |
| 1,1-Dichloroethane | | 270 | U | 54 | 270 |
| 1,2-Dichloroethane | | 270 | U | 64 | 270 |
| 1,1-Dichloroethylene | | 270 | U | 59 | 270 |
| o-Dichlorobenzene | | 270 | U | 97 | 270 |
| trans-1,2-Dichloroethylene | | 270 | U | 59 | 270 |
| m-Dichlorobenzene | | 270 | U | 59 | 270 |
| 1,2-Dichloropropane | | 270 | U | 70 | 270 |
| cis-1,3-Dichloropropene | | 270 | U | 49 | 270 |
| p-Dichlorobenzene | | 270 | U | 75 | 270 |
| trans-1,3-Dichloropropene | | 270 | U | 59 | 270 |
| Ethylbenzene | | 330 | | 47 | 270 |
| Ethyl methacrylate | | 270 | U | 41 | 270 |
| 2-Hexanone | | 1000 | J | 290 | 1300 |
| Methyl iodide | | 270 | U | 54 | 270 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW28**

Lab Sample ID: 680-21081-4
Client Matrix: Solid
% Moisture: 29.7
Date Sampled: 10/12/2006 1000
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 40
Date Analyzed: 10/13/2006 2129
Date Prepared: 10/13/2006 1043

Analysis Batch: 680-57457
Prep Batch: 680-57342

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1111.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 270 | U | 47 | 270 |
| Methacrylonitrile | | 5400 | U | 860 | 5400 |
| Methylene Chloride | | 110 | J | 86 | 270 |
| Methyl methacrylate | | 270 | U | 89 | 270 |
| 1,3-Dichloropropane | | 270 | U | 64 | 270 |
| 4-Methyl-2-pentanone (MIBK) | | 1300 | U | 310 | 1300 |
| Pentachloroethane | | 1300 | U | 250 | 1300 |
| 2,2-Dichloropropane | | 270 | U | 64 | 270 |
| Propionitrile | | 5400 | U | 1200 | 5400 |
| 1,1-Dichloropropene | | 270 | U | 75 | 270 |
| Styrene | | 270 | U | 46 | 270 |
| 1,1,1,2-Tetrachloroethane | | 270 | U | 75 | 270 |
| 1,1,2,2-Tetrachloroethane | | 270 | U | 54 | 270 |
| Tetrachloroethylene | | 270 | U | 54 | 270 |
| Toluene | | 270 | U | 54 | 270 |
| Hexachlorobutadiene | | 270 | U | 86 | 270 |
| 1,1,1-Trichloroethane | | 270 | U | 46 | 270 |
| 1,1,2-Trichloroethane | | 270 | U | 64 | 270 |
| Trichloroethylene | | 270 | U | 64 | 270 |
| Trichlorofluoromethane | | 270 | U * | 75 | 270 |
| Isopropylbenzene | | 310 | | 53 | 270 |
| 1,2,3-Trichloropropane | | 270 | U | 140 | 270 |
| p-Isopropyltoluene | | 1500 | | 64 | 270 |
| Vinyl acetate | | 540 | U | 100 | 540 |
| Vinyl chloride | | 270 | U | 49 | 270 |
| Methyl tert-butyl ether | | 2700 | U | 97 | 2700 |
| Naphthalene | | 3700 | | 180 | 270 |
| N-Propylbenzene | | 620 | | 64 | 270 |
| 1,2,3-Trichlorobenzene | | 270 | U | 54 | 270 |
| 1,2,4-Trichlorobenzene | | 270 | U | 120 | 270 |
| Freon 113 | | 270 | U | 54 | 270 |
| 1,2,4-Trimethylbenzene | | 2200 | | 54 | 270 |
| 1,3,5-Trimethylbenzene | | 690 | | 70 | 270 |
| o-Xylene | | 270 | U | 75 | 270 |
| m-Xylene & p-Xylene | | 110 | J | 110 | 540 |
| 1-Chlorohexane | | 160 | J | 42 | 270 |
| Hexane | | 270 | U | 120 | 270 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 108 | 68 - 121 |
| Dibromofluoromethane | 98 | 66 - 127 |
| Toluene-d8 (Surr) | 107 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21081-5TB
Client Matrix: Water

Date Sampled: 10/12/2006 0000
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/16/2006 2332
Date Prepared: 10/16/2006 2332

Analysis Batch: 680-57554

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1453.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U * | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21081-5TB
Client Matrix: Water

Date Sampled: 10/12/2006 0000
Date Received: 10/13/2006 0845

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/16/2006 2332
Date Prepared: 10/16/2006 2332

Analysis Batch: 680-57554

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1453.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 99 | 77 - 120 |
| Dibromofluoromethane | 97 | 75 - 123 |
| Toluene-d8 (Surr) | 103 | 79 - 122 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW25**

Lab Sample ID: 680-21081-1
Client Matrix: Solid
% Moisture: 15.8
Date Sampled: 10/12/2006 0915
Date Received: 10/13/2006 0845

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/17/2006 1151
Date Prepared: 10/16/2006 1245

Analysis Batch: 680-57617
Prep Batch: 680-57483

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5479.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 390 | U | 23 | 390 |
| Acenaphthylene | | 390 | U | 20 | 390 |
| Anthracene | | 390 | U | 27 | 390 |
| Benzidine | | 3200 | U | 99 | 3200 |
| Benzo[a]anthracene | | 390 | U | 37 | 390 |
| Benzo[a]pyrene | | 390 | U | 23 | 390 |
| Benzo[b]fluoranthene | | 390 | U | 31 | 390 |
| Benzo[g,h,i]perylene | | 29 | J | 27 | 390 |
| Benzoic acid | | 2000 | U | 200 | 2000 |
| Benzo[k]fluoranthene | | 390 | U | 43 | 390 |
| Benzyl alcohol | | 390 | U | 45 | 390 |
| Bis(2-chloroethoxy)methane | | 390 | U | 28 | 390 |
| Bis(2-chloroethyl)ether | | 390 | U | 33 | 390 |
| bis(chloroisopropyl) ether | | 390 | U | 42 | 390 |
| Bis(2-ethylhexyl) phthalate | | 390 | U | 45 | 390 |
| 4-Bromophenyl phenyl ether | | 390 | U | 37 | 390 |
| Butyl benzyl phthalate | | 390 | U | 32 | 390 |
| 4-Chloroaniline | | 780 | U | 31 | 780 |
| 4-Chloro-3-methylphenol | | 390 | U | 40 | 390 |
| 2-Chloronaphthalene | | 390 | U | 28 | 390 |
| 2-Chlorophenol | | 390 | U | 32 | 390 |
| 4-Chlorophenyl phenyl ether | | 390 | U | 23 | 390 |
| Chrysene | | 390 | U | 30 | 390 |
| Dibenz(a,h)anthracene | | 390 | U | 28 | 390 |
| Dibenzofuran | | 390 | U | 23 | 390 |
| 1,2-Dichlorobenzene | | 390 | U | 27 | 390 |
| 1,3-Dichlorobenzene | | 390 | U | 31 | 390 |
| 1,4-Dichlorobenzene | | 390 | U | 26 | 390 |
| 3,3'-Dichlorobenzidine | | 780 | U | 36 | 780 |
| 2,4-Dichlorophenol | | 390 | U | 27 | 390 |
| Diethyl phthalate | | 390 | U | 26 | 390 |
| 2,4-Dimethylphenol | | 390 | U | 42 | 390 |
| Dimethyl phthalate | | 390 | U | 23 | 390 |
| Di-n-butyl phthalate | | 390 | U | 33 | 390 |
| 4,6-Dinitro-o-cresol | | 2000 | U | 240 | 2000 |
| 2,4-Dinitrophenol | | 2000 | U | 200 | 2000 |
| 2,6-Dinitrotoluene | | 390 | U | 39 | 390 |
| 2,4-Dinitrotoluene | | 390 | U | 23 | 390 |
| Di-n-octyl phthalate | | 390 | U | 37 | 390 |
| Fluoranthene | | 390 | U | 31 | 390 |
| Fluorene | | 390 | U | 26 | 390 |
| Hexachlorobenzene | | 390 | U | 31 | 390 |
| Hexachlorobutadiene | | 390 | U | 24 | 390 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW25**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-1 | | | Date Sampled: | 10/12/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 15.8 | Date Received: | 10/13/2006 0845 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57617 | | Instrument ID: | GC/MS SemiVolatiles - T |
| Preparation: | 3550B | Prep Batch: 680-57483 | | Lab File ID: | t5479.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.03 g |
| Date Analyzed: | 10/17/2006 1151 | | | Final Weight/Volume: | 1 mL |
| Date Prepared: | 10/16/2006 1245 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 390 | U | 99 | 390 |
| Hexachloroethane | | 390 | U | 24 | 390 |
| Indeno[1,2,3-cd]pyrene | | 390 | U | 31 | 390 |
| Isophorone | | 390 | U | 26 | 390 |
| 2-Methylnaphthalene | | 390 | U | 28 | 390 |
| 2-Methylphenol | | 390 | U | 36 | 390 |
| 3 & 4 Methylphenol | | 390 | U | 34 | 390 |
| Naphthalene | | 390 | U | 23 | 390 |
| 3-Nitroaniline | | 2000 | U | 39 | 2000 |
| 2-Nitroaniline | | 2000 | U | 27 | 2000 |
| 4-Nitroaniline | | 2000 | U | 20 | 2000 |
| Nitrobenzene | | 390 | U | 42 | 390 |
| 4-Nitrophenol | | 2000 | U | 250 | 2000 |
| 2-Nitrophenol | | 390 | U | 24 | 390 |
| N-Nitrosodi-n-propylamine | | 390 | U | 33 | 390 |
| N-Nitrosodiphenylamine | | 390 | U | 27 | 390 |
| Pentachlorophenol | | 2000 | U | 99 | 2000 |
| Phenanthrene | | 390 | U | 34 | 390 |
| Phenol | | 390 | U | 36 | 390 |
| Pyrene | | 390 | U | 24 | 390 |
| 1,2,4-Trichlorobenzene | | 390 | U | 25 | 390 |
| 2,4,5-Trichlorophenol | | 390 | U | 38 | 390 |
| 2,4,6-Trichlorophenol | | 390 | U | 24 | 390 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 59 | 38 - 104 |
| 2-Fluorophenol | 55 | 36 - 101 |
| Nitrobenzene-d5 | 49 | 33 - 94 |
| Phenol-d5 | 59 | 38 - 102 |
| Terphenyl-d14 | 56 | 40 - 129 |
| 2,4,6-Tribromophenol | 51 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW26**

Lab Sample ID: 680-21081-2
Client Matrix: Solid
% Moisture: 30.9
Date Sampled: 10/12/2006 0930
Date Received: 10/13/2006 0845

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 10
Date Analyzed: 10/14/2006 1406
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57418
Prep Batch: 680-57330

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6888.d
Initial Weight/Volume: 30.08 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 4800 | U | 270 | 4800 |
| Acenaphthylene | | 4800 | U | 250 | 4800 |
| Anthracene | | 4800 | U | 330 | 4800 |
| Benzidine | | 39000 | U | 1200 | 39000 |
| Benzo[a]anthracene | | 4800 | U | 450 | 4800 |
| Benzo[a]pyrene | | 4800 | U | 270 | 4800 |
| Benzo[b]fluoranthene | | 4800 | U | 380 | 4800 |
| Benzo[g,h,i]perylene | | 4800 | U | 330 | 4800 |
| Benzoic acid | | 25000 | U * | 2500 | 25000 |
| Benzo[k]fluoranthene | | 4800 | U | 520 | 4800 |
| Benzyl alcohol | | 4800 | U | 550 | 4800 |
| Bis(2-chloroethoxy)methane | | 4800 | U | 350 | 4800 |
| Bis(2-chloroethyl)ether | | 4800 | U | 400 | 4800 |
| bis(chloroisopropyl) ether | | 4800 | U | 510 | 4800 |
| Bis(2-ethylhexyl) phthalate | | 4800 | U | 550 | 4800 |
| 4-Bromophenyl phenyl ether | | 4800 | U | 450 | 4800 |
| Butyl benzyl phthalate | | 4800 | U | 390 | 4800 |
| 4-Chloroaniline | | 9500 | U | 380 | 9500 |
| 4-Chloro-3-methylphenol | | 4800 | U | 490 | 4800 |
| 2-Chloronaphthalene | | 4800 | U | 350 | 4800 |
| 2-Chlorophenol | | 4800 | U | 390 | 4800 |
| 4-Chlorophenyl phenyl ether | | 4800 | U | 270 | 4800 |
| Chrysene | | 4800 | U | 360 | 4800 |
| Dibenz(a,h)anthracene | | 4800 | U | 350 | 4800 |
| Dibenzofuran | | 4800 | U | 270 | 4800 |
| 1,2-Dichlorobenzene | | 4800 | U | 330 | 4800 |
| 1,3-Dichlorobenzene | | 4800 | U | 380 | 4800 |
| 1,4-Dichlorobenzene | | 4800 | U | 320 | 4800 |
| 3,3'-Dichlorobenzidine | | 9500 | U | 430 | 9500 |
| 2,4-Dichlorophenol | | 4800 | U | 330 | 4800 |
| Diethyl phthalate | | 4800 | U | 320 | 4800 |
| 2,4-Dimethylphenol | | 4800 | U | 510 | 4800 |
| Dimethyl phthalate | | 4800 | U | 270 | 4800 |
| Di-n-butyl phthalate | | 4800 | U | 400 | 4800 |
| 4,6-Dinitro-o-cresol | | 25000 | U | 2900 | 25000 |
| 2,4-Dinitrophenol | | 25000 | U | 2500 | 25000 |
| 2,6-Dinitrotoluene | | 4800 | U | 480 | 4800 |
| 2,4-Dinitrotoluene | | 4800 | U | 270 | 4800 |
| Di-n-octyl phthalate | | 4800 | U | 450 | 4800 |
| Fluoranthene | | 4800 | U | 380 | 4800 |
| Fluorene | | 4800 | U | 320 | 4800 |
| Hexachlorobenzene | | 4800 | U | 380 | 4800 |
| Hexachlorobutadiene | | 4800 | U | 290 | 4800 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW26**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-2 | | | Date Sampled: | 10/12/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 30.9 | Date Received: | 10/13/2006 0845 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57418 | | Instrument ID: | GC/MS SemiVolatiles - G |
| Preparation: | 3550B | Prep Batch: 680-57330 | | Lab File ID: | g6888.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.08 g |
| Date Analyzed: | 10/14/2006 1406 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 4800 | U | 1200 | 4800 |
| Hexachloroethane | | 4800 | U | 290 | 4800 |
| Indeno[1,2,3-cd]pyrene | | 4800 | U | 380 | 4800 |
| Isophorone | | 4800 | U | 320 | 4800 |
| 2-Methylnaphthalene | | 9000 | | 350 | 4800 |
| 2-Methylphenol | | 4800 | U | 430 | 4800 |
| 3 & 4 Methylphenol | | 4800 | U | 420 | 4800 |
| Naphthalene | | 4000 | J | 270 | 4800 |
| 3-Nitroaniline | | 25000 | U | 480 | 25000 |
| 2-Nitroaniline | | 25000 | U | 330 | 25000 |
| 4-Nitroaniline | | 25000 | U | 250 | 25000 |
| Nitrobenzene | | 4800 | U | 510 | 4800 |
| 4-Nitrophenol | | 25000 | U | 3000 | 25000 |
| 2-Nitrophenol | | 4800 | U | 290 | 4800 |
| N-Nitrosodi-n-propylamine | | 4800 | U | 400 | 4800 |
| N-Nitrosodiphenylamine | | 4800 | U | 330 | 4800 |
| Pentachlorophenol | | 25000 | U | 1200 | 25000 |
| Phenanthrene | | 4800 | U | 420 | 4800 |
| Phenol | | 4800 | U | 430 | 4800 |
| Pyrene | | 4800 | U | 290 | 4800 |
| 1,2,4-Trichlorobenzene | | 4800 | U | 300 | 4800 |
| 2,4,5-Trichlorophenol | | 4800 | U | 460 | 4800 |
| 2,4,6-Trichlorophenol | | 4800 | U | 290 | 4800 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 0 | D | 38 - 104 |
| 2-Fluorophenol | 0 | D | 36 - 101 |
| Nitrobenzene-d5 | 0 | D | 33 - 94 |
| Phenol-d5 | 0 | D | 38 - 102 |
| Terphenyl-d14 | 0 | D | 40 - 129 |
| 2,4,6-Tribromophenol | 0 | D | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW27**

Lab Sample ID: 680-21081-3
Client Matrix: Solid
% Moisture: 29.5
Date Sampled: 10/12/2006 0945
Date Received: 10/13/2006 0845

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/13/2006 1907
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57416
Prep Batch: 680-57330

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6881.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 470 | U | 27 | 470 |
| Acenaphthylene | | 470 | U | 24 | 470 |
| Anthracene | | 470 | U | 33 | 470 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 470 | U | 44 | 470 |
| Benzo[a]pyrene | | 470 | U | 27 | 470 |
| Benzo[b]fluoranthene | | 470 | U | 37 | 470 |
| Benzo[g,h,i]perylene | | 470 | U | 33 | 470 |
| Benzoic acid | | 2400 | U * | 240 | 2400 |
| Benzo[k]fluoranthene | | 470 | U | 51 | 470 |
| Benzyl alcohol | | 470 | U | 54 | 470 |
| Bis(2-chloroethoxy)methane | | 470 | U | 34 | 470 |
| Bis(2-chloroethyl)ether | | 470 | U | 40 | 470 |
| bis(chloroisopropyl) ether | | 470 | U | 49 | 470 |
| Bis(2-ethylhexyl) phthalate | | 470 | U | 54 | 470 |
| 4-Bromophenyl phenyl ether | | 470 | U | 44 | 470 |
| Butyl benzyl phthalate | | 470 | U | 38 | 470 |
| 4-Chloroaniline | | 930 | U | 37 | 930 |
| 4-Chloro-3-methylphenol | | 470 | U | 48 | 470 |
| 2-Chloronaphthalene | | 470 | U | 34 | 470 |
| 2-Chlorophenol | | 470 | U | 38 | 470 |
| 4-Chlorophenyl phenyl ether | | 470 | U | 27 | 470 |
| Chrysene | | 470 | U | 35 | 470 |
| Dibenz(a,h)anthracene | | 470 | U | 34 | 470 |
| Dibenzofuran | | 470 | U | 27 | 470 |
| 1,2-Dichlorobenzene | | 470 | U | 33 | 470 |
| 1,3-Dichlorobenzene | | 470 | U | 37 | 470 |
| 1,4-Dichlorobenzene | | 470 | U | 31 | 470 |
| 3,3'-Dichlorobenzidine | | 930 | U | 42 | 930 |
| 2,4-Dichlorophenol | | 470 | U | 33 | 470 |
| Diethyl phthalate | | 470 | U | 31 | 470 |
| 2,4-Dimethylphenol | | 470 | U | 49 | 470 |
| Dimethyl phthalate | | 470 | U | 27 | 470 |
| Di-n-butyl phthalate | | 470 | U | 40 | 470 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 470 | U | 47 | 470 |
| 2,4-Dinitrotoluene | | 470 | U | 27 | 470 |
| Di-n-octyl phthalate | | 470 | U | 44 | 470 |
| Fluoranthene | | 470 | U | 37 | 470 |
| Fluorene | | 100 | J | 31 | 470 |
| Hexachlorobenzene | | 470 | U | 37 | 470 |
| Hexachlorobutadiene | | 470 | U | 28 | 470 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW27**

Lab Sample ID: 680-21081-3
Client Matrix: Solid
% Moisture: 29.5
Date Sampled: 10/12/2006 0945
Date Received: 10/13/2006 0845

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/13/2006 1907
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57416
Prep Batch: 680-57330

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6881.d
Initial Weight/Volume: 30.09 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 470 | U | 120 | 470 |
| Hexachloroethane | | 470 | U | 28 | 470 |
| Indeno[1,2,3-cd]pyrene | | 470 | U | 37 | 470 |
| Isophorone | | 470 | U | 31 | 470 |
| 2-Methylnaphthalene | | 6700 | | 34 | 470 |
| 2-Methylphenol | | 470 | U | 42 | 470 |
| 3 & 4 Methylphenol | | 470 | U | 41 | 470 |
| Naphthalene | | 2600 | | 27 | 470 |
| 3-Nitroaniline | | 2400 | U | 47 | 2400 |
| 2-Nitroaniline | | 2400 | U | 33 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 470 | U | 49 | 470 |
| 4-Nitrophenol | | 2400 | U | 300 | 2400 |
| 2-Nitrophenol | | 470 | U | 28 | 470 |
| N-Nitrosodi-n-propylamine | | 470 | U | 40 | 470 |
| N-Nitrosodiphenylamine | | 470 | U | 33 | 470 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 470 | U | 41 | 470 |
| Phenol | | 470 | U | 42 | 470 |
| Pyrene | | 470 | U | 28 | 470 |
| 1,2,4-Trichlorobenzene | | 470 | U | 30 | 470 |
| 2,4,5-Trichlorophenol | | 470 | U | 45 | 470 |
| 2,4,6-Trichlorophenol | | 470 | U | 28 | 470 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 55 | | 38 - 104 |
| 2-Fluorophenol | 49 | | 36 - 101 |
| Nitrobenzene-d5 | 108 | X | 33 - 94 |
| Phenol-d5 | 54 | | 38 - 102 |
| Terphenyl-d14 | 59 | | 40 - 129 |
| 2,4,6-Tribromophenol | 53 | | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW28**

Lab Sample ID: 680-21081-4
Client Matrix: Solid
% Moisture: 29.7
Date Sampled: 10/12/2006 1000
Date Received: 10/13/2006 0845

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/13/2006 1935
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57416
Prep Batch: 680-57330

Instrument ID: GC/MS SemiVolatiles - G
Lab File ID: g6882.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 470 | U | 27 | 470 |
| Acenaphthylene | | 470 | U | 24 | 470 |
| Anthracene | | 470 | U | 33 | 470 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 470 | U | 44 | 470 |
| Benzo[a]pyrene | | 470 | U | 27 | 470 |
| Benzo[b]fluoranthene | | 470 | U | 37 | 470 |
| Benzo[g,h,i]perylene | | 470 | U | 33 | 470 |
| Benzoic acid | | 2400 | U | 240 | 2400 |
| Benzo[k]fluoranthene | | 470 | U | 51 | 470 |
| Benzyl alcohol | | 470 | U | 54 | 470 |
| Bis(2-chloroethoxy)methane | | 470 | U | 34 | 470 |
| Bis(2-chloroethyl)ether | | 470 | U | 40 | 470 |
| bis(chloroisopropyl) ether | | 470 | U | 50 | 470 |
| Bis(2-ethylhexyl) phthalate | | 470 | U | 54 | 470 |
| 4-Bromophenyl phenyl ether | | 470 | U | 44 | 470 |
| Butyl benzyl phthalate | | 470 | U | 38 | 470 |
| 4-Chloroaniline | | 940 | U | 37 | 940 |
| 4-Chloro-3-methylphenol | | 470 | U | 48 | 470 |
| 2-Chloronaphthalene | | 470 | U | 34 | 470 |
| 2-Chlorophenol | | 470 | U | 38 | 470 |
| 4-Chlorophenyl phenyl ether | | 470 | U | 27 | 470 |
| Chrysene | | 470 | U | 36 | 470 |
| Dibenz(a,h)anthracene | | 470 | U | 34 | 470 |
| Dibenzofuran | | 470 | U | 27 | 470 |
| 1,2-Dichlorobenzene | | 470 | U | 33 | 470 |
| 1,3-Dichlorobenzene | | 470 | U | 37 | 470 |
| 1,4-Dichlorobenzene | | 470 | U | 31 | 470 |
| 3,3'-Dichlorobenzidine | | 940 | U | 43 | 940 |
| 2,4-Dichlorophenol | | 470 | U | 33 | 470 |
| Diethyl phthalate | | 470 | U | 31 | 470 |
| 2,4-Dimethylphenol | | 470 | U | 50 | 470 |
| Dimethyl phthalate | | 470 | U | 27 | 470 |
| Di-n-butyl phthalate | | 470 | U | 40 | 470 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 470 | U | 47 | 470 |
| 2,4-Dinitrotoluene | | 470 | U | 27 | 470 |
| Di-n-octyl phthalate | | 470 | U | 44 | 470 |
| Fluoranthene | | 470 | U | 37 | 470 |
| Fluorene | | 470 | U | 31 | 470 |
| Hexachlorobenzene | | 470 | U | 37 | 470 |
| Hexachlorobutadiene | | 470 | U | 28 | 470 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW28**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-4 | | | Date Sampled: | 10/12/2006 1000 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/13/2006 0845 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57416 | | Instrument ID: | GC/MS SemiVolatiles - G |
| Preparation: | 3550B | Prep Batch: 680-57330 | | Lab File ID: | g6882.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.02 g |
| Date Analyzed: | 10/13/2006 1935 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 470 | U | 120 | 470 |
| Hexachloroethane | | 470 | U | 28 | 470 |
| Indeno[1,2,3-cd]pyrene | | 470 | U | 37 | 470 |
| Isophorone | | 470 | U | 31 | 470 |
| 2-Methylnaphthalene | | 2800 | | 34 | 470 |
| 2-Methylphenol | | 470 | U | 43 | 470 |
| 3 & 4 Methylphenol | | 470 | U | 41 | 470 |
| Naphthalene | | 1100 | | 27 | 470 |
| 3-Nitroaniline | | 2400 | U | 47 | 2400 |
| 2-Nitroaniline | | 2400 | U | 33 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 470 | U | 50 | 470 |
| 4-Nitrophenol | | 2400 | U | 300 | 2400 |
| 2-Nitrophenol | | 470 | U | 28 | 470 |
| N-Nitrosodi-n-propylamine | | 470 | U | 40 | 470 |
| N-Nitrosodiphenylamine | | 470 | U | 33 | 470 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 470 | U | 41 | 470 |
| Phenol | | 470 | U | 43 | 470 |
| Pyrene | | 470 | U | 28 | 470 |
| 1,2,4-Trichlorobenzene | | 470 | U | 30 | 470 |
| 2,4,5-Trichlorophenol | | 470 | U | 45 | 470 |
| 2,4,6-Trichlorophenol | | 470 | U | 28 | 470 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 52 | 38 - 104 |
| 2-Fluorophenol | 47 | 36 - 101 |
| Nitrobenzene-d5 | 69 | 33 - 94 |
| Phenol-d5 | 51 | 38 - 102 |
| Terphenyl-d14 | 57 | 40 - 129 |
| 2,4,6-Tribromophenol | 52 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW25**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-1 | | | Date Sampled: | 10/12/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 15.8 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57499 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57342 | | Lab File ID: | PC13A7.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 6.0 g |
| Date Analyzed: | 10/13/2006 1317 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/13/2006 1043 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.25 | U | 0.081 | 0.25 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 90 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW26**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-2 | | | Date Sampled: | 10/12/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 30.9 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57498 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57342 | | Lab File ID: | PC13A8.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.5 g |
| Date Analyzed: | 10/13/2006 1356 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/13/2006 1043 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 830 | | 26 | 80 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 64 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW27**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-3 | | | Date Sampled: | 10/12/2006 0945 |
| Client Matrix: | Solid | % Moisture: | 29.5 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57504 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57342 | | Lab File ID: | PC16A5.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.7 g |
| Date Analyzed: | 10/16/2006 1110 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/13/2006 1043 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 700 | | 25 | 75 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 66 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW28**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-4 | | | Date Sampled: | 10/12/2006 1000 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57504 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57342 | | Lab File ID: | PC16A6.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.3 g |
| Date Analyzed: | 10/16/2006 1148 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/13/2006 1043 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 620 | | 22 | 67 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 80 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW25**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-1 | | | Date Sampled: | 10/12/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 15.8 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57444 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57321 | | Lab File ID: | q0130083.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/14/2006 1439 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0900 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 20 | | 2.0 | 3.9 |
| Oil Range Organics (C20-C36) | | 70 | | 10 | 20 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 58 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID:** **WPOL-SW26**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-2 | | | Date Sampled: | 10/12/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 30.9 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57444 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57321 | | Lab File ID: | q0130085.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.04 g |
| Date Analyzed: | 10/14/2006 1516 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0900 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 2800 | | 25 | 48 |
| Oil Range Organics (C20-C36) | | 250 | U | 120 | 250 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 0 | D | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW27**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-3 | | | Date Sampled: | 10/12/2006 0945 |
| Client Matrix: | Solid | % Moisture: | 29.5 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57444 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57321 | | Lab File ID: | q0130086.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.12 g |
| Date Analyzed: | 10/14/2006 1534 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0900 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 1800 | | 24 | 47 |
| Oil Range Organics (C20-C36) | | 240 | U | 120 | 240 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 0 | D | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Client Sample ID: WPOL-SW28**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21081-4 | | | Date Sampled: | 10/12/2006 1000 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/13/2006 0845 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57444 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57321 | | Lab File ID: | q0130087.d |
| Dilution: | 2.0 | | | Initial Weight/Volume: | 30.07 g |
| Date Analyzed: | 10/14/2006 1552 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0900 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 660 | | 4.8 | 9.4 |
| Oil Range Organics (C20-C36) | | 48 | U | 24 | 48 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 82 | 15 - 154 |

**General Chemistry**

**Client Sample ID: WPOL-SW25**

Lab Sample ID: 680-21081-1
Client Matrix: Solid

Date Sampled: 10/12/2006 0915
Date Received: 10/13/2006 0845

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 16 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |
| Percent Solids | 84 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |

**Client Sample ID: WPOL-SW26**

Lab Sample ID: 680-21081-2
Client Matrix: Solid

Date Sampled: 10/12/2006 0930
Date Received: 10/13/2006 0845

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 31 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |
| Percent Solids | 69 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |

**Client Sample ID: WPOL-SW27**

Lab Sample ID: 680-21081-3
Client Matrix: Solid

Date Sampled: 10/12/2006 0945
Date Received: 10/13/2006 0845

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 29 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |
| Percent Solids | 71 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**General Chemistry**

**Client Sample ID:** **WPOL-SW28**

Lab Sample ID: 680-21081-4
Client Matrix: Solid

Date Sampled: 10/12/2006 1000
Date Received: 10/13/2006 0845

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 30 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |
| Percent Solids | 70 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57335 | Date Analyzed | 10/13/2006 1009 | | | | |

# DATA REPORTING QUALIFIERS

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| | F | MS or MSD exceeds the control limits |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | X | Surrogate exceeds the control limits |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| GC VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| GC Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | D | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Prep Batch: 680-57342** | | | | | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 5035 | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 5035 | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 5035 | |
| 680-21081-4 | WPOL-SW28 | T | Solid | 5035 | |
| **Analysis Batch:680-57356** | | | | | |
| LCS 680-57356/4 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-57356/6 | Method Blank | T | Solid | 8260B | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 8260B | 680-57342 |
| **Analysis Batch:680-57457** | | | | | |
| LCS 680-57457/3 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-57457/4 | Method Blank | T | Solid | 8260B | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 8260B | 680-57342 |
| 680-21081-3 | WPOL-SW27 | T | Solid | 8260B | 680-57342 |
| 680-21081-4 | WPOL-SW28 | T | Solid | 8260B | 680-57342 |
| **Analysis Batch:680-57554** | | | | | |
| LCS 680-57554/6 | Lab Control Spike | T | Water | 8260B | |
| MB 680-57554/7 | Method Blank | T | Water | 8260B | |
| 680-21081-5TB | Trip Blank | T | Water | 8260B | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 680-57330** | | | | | |
| LCS 680-57330/6-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57330/5-A | Method Blank | T | Solid | 3550B | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 3550B | |
| 680-21081-2MS | Matrix Spike | T | Solid | 3550B | |
| 680-21081-2MSD | Matrix Spike Duplicate | T | Solid | 3550B | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 3550B | |
| 680-21081-4 | WPOL-SW28 | T | Solid | 3550B | |
| **Analysis Batch:680-57370** | | | | | |
| LCS 680-57330/6-A | Lab Control Spike | T | Solid | 8270C | 680-57330 |
| MB 680-57330/5-A | Method Blank | T | Solid | 8270C | 680-57330 |
| **Analysis Batch:680-57416** | | | | | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 8270C | 680-57330 |
| 680-21081-4 | WPOL-SW28 | T | Solid | 8270C | 680-57330 |
| **Analysis Batch:680-57418** | | | | | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 8270C | 680-57330 |
| 680-21081-2MS | Matrix Spike | T | Solid | 8270C | 680-57330 |
| 680-21081-2MSD | Matrix Spike Duplicate | T | Solid | 8270C | 680-57330 |
| **Prep Batch: 680-57483** | | | | | |
| LCS 680-57483/5-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57483/4-A | Method Blank | T | Solid | 3550B | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 3550B | |
| **Analysis Batch:680-57489** | | | | | |
| LCS 680-57483/5-A | Lab Control Spike | T | Solid | 8270C | 680-57483 |
| MB 680-57483/4-A | Method Blank | T | Solid | 8270C | 680-57483 |
| **Analysis Batch:680-57617** | | | | | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 8270C | 680-57483 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC VOA** | | | | | |
| **Prep Batch: 680-57342** | | | | | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 5035 | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 5035 | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 5035 | |
| 680-21081-4 | WPOL-SW28 | T | Solid | 5035 | |
| **Analysis Batch:680-57498** | | | | | |
| LCS 680-57498/1 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-57498/2 | Method Blank | T | Solid | 8015B | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 8015B | 680-57342 |
| **Analysis Batch:680-57499** | | | | | |
| LCS 680-57499/1 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-57499/2 | Method Blank | T | Solid | 8015B | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 8015B | 680-57342 |
| **Analysis Batch:680-57504** | | | | | |
| LCS 680-57504/1 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-57504/2 | Method Blank | T | Solid | 8015B | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 8015B | 680-57342 |
| 680-21081-4 | WPOL-SW28 | T | Solid | 8015B | 680-57342 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 680-57321** | | | | | |
| LCS 680-57321/14-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57321/13-A | Method Blank | T | Solid | 3550B | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 3550B | |
| 680-21081-2 | WPOL-SW26 | T | Solid | 3550B | |
| 680-21081-3 | WPOL-SW27 | T | Solid | 3550B | |
| 680-21081-4 | WPOL-SW28 | T | Solid | 3550B | |
| **Analysis Batch:680-57409** | | | | | |
| LCS 680-57321/14-A | Lab Control Spike | T | Solid | 8015B | 680-57321 |
| MB 680-57321/13-A | Method Blank | T | Solid | 8015B | 680-57321 |
| **Analysis Batch:680-57444** | | | | | |
| 680-21081-1 | WPOL-SW25 | T | Solid | 8015B | 680-57321 |
| 680-21081-2 | WPOL-SW26 | T | Solid | 8015B | 680-57321 |
| 680-21081-3 | WPOL-SW27 | T | Solid | 8015B | 680-57321 |
| 680-21081-4 | WPOL-SW28 | T | Solid | 8015B | 680-57321 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:680-57335** | | | | | |
| 680-21081-1 | WPOL-SW25 | T | Solid | PercentMoisture | |
| 680-21081-2 | WPOL-SW26 | T | Solid | PercentMoisture | |
| 680-21081-3 | WPOL-SW27 | T | Solid | PercentMoisture | |
| 680-21081-4 | WPOL-SW28 | T | Solid | PercentMoisture | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57356/4 | | 96 | 95 | 95 |
| LCS 680-57457/3 | | 103 | 102 | 111 |
| MB 680-57356/6 | | 100 | 104 | 99 |
| MB 680-57457/4 | | 95 | 98 | 104 |
| 680-21081-1 | WPOL-SW25 | 83 | 103 | 90 |
| 680-21081-2 | WPOL-SW26 | 105 | 103 | 97 |
| 680-21081-3 | WPOL-SW27 | 102 | 100 | 101 |
| 680-21081-4 | WPOL-SW28 | 108 | 98 | 107 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 68 - 121 |
| (DBFM) | Dibromofluoromethane | 66 - 127 |
| (TOL) | Toluene-d8 (Surr) | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57554/6 | | 96 | 95 | 98 |
| MB 680-57554/7 | | 97 | 99 | 102 |
| 680-21081-5TB | Trip Blank | 99 | 97 | 103 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 77 - 120 |
| (DBFM) | Dibromofluoromethane | 75 - 123 |
| (TOL) | Toluene-d8 (Surr) | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## Surrogate Recovery Report

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (2FP) (%Rec) | (FBP) (%Rec) | (NBZ) (%Rec) | (PHL) (%Rec) | (TBP) (%Rec) | (TPH) (%Rec) |
|---|---|---|---|---|---|---|---|
| 680-21081-2MS | WPOL-SW26 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D |
| 680-21081-2MSD | WPOL-SW26 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D |
| LCS 680-57330/6-A | | 88 | 84 | 81 | 90 | 96 | 77 |
| LCS 680-57483/5-A | | 79 | 91 | 77 | 83 | 91 | 90 |
| MB 680-57330/5-A | | 80 | 78 | 71 | 73 | 47 | 72 |
| MB 680-57483/4-A | | 69 | 80 | 65 | 71 | 65 | 95 |
| 680-21081-1 | WPOL-SW25 | 55 | 59 | 49 | 59 | 51 | 56 |
| 680-21081-2 | WPOL-SW26 | 0 D | 0 D | 0 D | 0 D | 0 D | 0 D |
| 680-21081-3 | WPOL-SW27 | 49 | 55 | 108 X | 54 | 53 | 59 |
| 680-21081-4 | WPOL-SW28 | 47 | 52 | 69 | 51 | 52 | 57 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (2FP) | 2-Fluorophenol | 36 - 101 |
| (FBP) | 2-Fluorobiphenyl | 38 - 104 |
| (NBZ) | Nitrobenzene-d5 | 33 - 94 |
| (PHL) | Phenol-d5 | 38 - 102 |
| (TBP) | 2,4,6-Tribromophenol | 27 - 124 |
| (TPH) | Terphenyl-d14 | 40 - 129 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (TFT) (%Rec) |
|---|---|---|
| LCS 680-57498/1 | | 94 |
| LCS 680-57499/1 | | 90 |
| LCS 680-57504/1 | | 87 |
| MB 680-57498/2 | | 89 |
| MB 680-57499/2 | | 86 |
| MB 680-57504/2 | | 87 |
| 680-21081-1 | WPOL-SW25 | 90 |
| 680-21081-2 | WPOL-SW26 | 64 |
| 680-21081-3 | WPOL-SW27 | 66 |
| 680-21081-4 | WPOL-SW28 | 80 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (TFT) | a,a,a-Trifluorotoluene | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (OTPH) (%Rec) |
|---|---|---|
| LCS 680-57321/14-A | | 142 |
| MB 680-57321/13-A | | 100 |
| 680-21081-1 | WPOL-SW25 | 58 |
| 680-21081-2 | WPOL-SW26 | 0 D |
| 680-21081-3 | WPOL-SW27 | 0 D |
| 680-21081-4 | WPOL-SW28 | 82 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (OTPH) | o-Terphenyl | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57356**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57356/6
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1401
Date Prepared: N/A

Analysis Batch: 680-57356
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq596.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 50 | U | 3.0 | 50 |
| Acetonitrile | 200 | U | 28 | 200 |
| Acrolein | 100 | U | 11 | 100 |
| Bromobenzene | 5.0 | U | 0.93 | 5.0 |
| Acrylonitrile | 100 | U | 16 | 100 |
| Bromochloromethane | 5.0 | U | 0.95 | 5.0 |
| Benzene | 5.0 | U | 0.86 | 5.0 |
| Dichlorobromomethane | 5.0 | U | 1.0 | 5.0 |
| Bromoform | 5.0 | U | 2.2 | 5.0 |
| Methyl bromide | 5.0 | U | 1.3 | 5.0 |
| Methyl Ethyl Ketone | 25 | U | 4.0 | 25 |
| n-Butylbenzene | 5.0 | U | 0.99 | 5.0 |
| Carbon disulfide | 5.0 | U | 1.0 | 5.0 |
| sec-Butylbenzene | 5.0 | U | 1.1 | 5.0 |
| Carbon tetrachloride | 5.0 | U | 0.89 | 5.0 |
| tert-Butylbenzene | 5.0 | U | 1.2 | 5.0 |
| Chlorobenzene | 5.0 | U | 0.69 | 5.0 |
| Chloroethane | 5.0 | U | 1.5 | 5.0 |
| Chloroform | 5.0 | U | 0.88 | 5.0 |
| Methyl chloride | 5.0 | U | 0.70 | 5.0 |
| Allyl chloride | 5.0 | U | 1.2 | 5.0 |
| Chlorodibromomethane | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 4.6 | 10 |
| 1,2-Dibromoethane | 5.0 | U | 1.4 | 5.0 |
| 2-Chlorotoluene | 5.0 | U | 1.4 | 5.0 |
| Methylene bromide | 5.0 | U | 1.3 | 5.0 |
| 4-Chlorotoluene | 5.0 | U | 0.78 | 5.0 |
| trans-1,4-Dichloro-2-butene | 10 | U | 4.0 | 10 |
| Dichlorodifluoromethane | 5.0 | U | 2.5 | 5.0 |
| 1,1-Dichloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,2-Dichloroethane | 5.0 | U | 1.2 | 5.0 |
| 1,1-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| o-Dichlorobenzene | 5.0 | U | 1.8 | 5.0 |
| trans-1,2-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dichloropropane | 5.0 | U | 1.3 | 5.0 |
| m-Dichlorobenzene | 5.0 | U | 1.1 | 5.0 |
| cis-1,3-Dichloropropene | 5.0 | U | 0.91 | 5.0 |
| p-Dichlorobenzene | 5.0 | U | 1.4 | 5.0 |
| trans-1,3-Dichloropropene | 5.0 | U | 1.1 | 5.0 |
| Ethylbenzene | 5.0 | U | 0.87 | 5.0 |
| Ethyl methacrylate | 5.0 | U | 0.77 | 5.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57356**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57356/6
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1401
Date Prepared: N/A

Analysis Batch: 680-57356
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq596.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 25 | U | 5.4 | 25 |
| cis-Dichloroethylene | 5.0 | U | 0.88 | 5.0 |
| Methyl iodide | 5.0 | U | 1.0 | 5.0 |
| Methacrylonitrile | 100 | U | 16 | 100 |
| Methylene Chloride | 5.0 | U | 1.6 | 5.0 |
| Methyl methacrylate | 5.0 | U | 1.7 | 5.0 |
| 1,3-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 5.8 | 25 |
| 2,2-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| Pentachloroethane | 25 | U | 4.6 | 25 |
| 1,1-Dichloropropene | 5.0 | U | 1.4 | 5.0 |
| Propionitrile | 100 | U | 23 | 100 |
| Styrene | 5.0 | U | 0.85 | 5.0 |
| 1,1,1,2-Tetrachloroethane | 5.0 | U | 1.4 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 1.0 | 5.0 |
| Tetrachloroethylene | 5.0 | U | 1.0 | 5.0 |
| Hexachlorobutadiene | 5.0 | U | 1.6 | 5.0 |
| Toluene | 5.0 | U | 1.0 | 5.0 |
| 1,1,1-Trichloroethane | 5.0 | U | 0.85 | 5.0 |
| 1,1,2-Trichloroethane | 5.0 | U | 1.2 | 5.0 |
| Trichloroethylene | 5.0 | U | 1.2 | 5.0 |
| Isopropylbenzene | 5.0 | U | 0.99 | 5.0 |
| Trichlorofluoromethane | 5.0 | U | 1.4 | 5.0 |
| 1,2,3-Trichloropropane | 5.0 | U | 2.7 | 5.0 |
| p-Isopropyltoluene | 5.0 | U | 1.2 | 5.0 |
| Vinyl acetate | 10 | U | 1.9 | 10 |
| Vinyl chloride | 5.0 | U | 0.92 | 5.0 |
| Methyl tert-butyl ether | 50 | U | 1.8 | 50 |
| Naphthalene | 5.0 | U | 3.4 | 5.0 |
| N-Propylbenzene | 5.0 | U | 1.2 | 5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 2.2 | 5.0 |
| Freon 113 | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 1.0 | 5.0 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 1.3 | 5.0 |
| o-Xylene | 5.0 | U | 1.4 | 5.0 |
| m-Xylene & p-Xylene | 10 | U | 2.0 | 10 |
| 1-Chlorohexane | 5.0 | U | 0.78 | 5.0 |
| Hexane | 5.0 | U | 2.3 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 100 | 68 - 121 |
| Dibromofluoromethane | 104 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57356**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57356/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1300
Date Prepared: N/A

Analysis Batch: 680-57356
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq594.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 97.8 | 98 | 28 - 143 | |
| Bromobenzene | 50.0 | 47.3 | 95 | 77 - 147 | |
| Bromochloromethane | 50.0 | 47.5 | 95 | 63 - 136 | |
| Benzene | 50.0 | 45.9 | 92 | 79 - 118 | |
| Dichlorobromomethane | 50.0 | 45.6 | 91 | 74 - 128 | |
| Bromoform | 50.0 | 50.9 | 102 | 62 - 137 | |
| Methyl bromide | 50.0 | 45.1 | 90 | 26 - 160 | |
| Methyl Ethyl Ketone | 100 | 95.3 | 95 | 30 - 149 | |
| n-Butylbenzene | 50.0 | 50.7 | 101 | 59 - 120 | |
| Carbon disulfide | 50.0 | 39.2 | 78 | 32 - 157 | |
| sec-Butylbenzene | 50.0 | 49.5 | 99 | 60 - 128 | |
| Carbon tetrachloride | 50.0 | 44.3 | 89 | 62 - 140 | |
| tert-Butylbenzene | 50.0 | 49.4 | 99 | 62 - 140 | |
| Chlorobenzene | 50.0 | 49.3 | 99 | 81 - 120 | |
| Chloroethane | 50.0 | 50.3 | 101 | 20 - 140 | |
| Chloroform | 50.0 | 45.7 | 91 | 77 - 125 | |
| Methyl chloride | 50.0 | 52.1 | 104 | 42 - 140 | |
| Chlorodibromomethane | 50.0 | 52.4 | 105 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 50.7 | 101 | 21 - 180 | |
| 1,2-Dibromoethane | 50.0 | 47.9 | 96 | 76 - 130 | |
| 2-Chlorotoluene | 50.0 | 46.1 | 92 | 49 - 219 | |
| Methylene bromide | 50.0 | 44.1 | 88 | 71 - 134 | |
| 4-Chlorotoluene | 50.0 | 48.6 | 97 | 45 - 218 | |
| Dichlorodifluoromethane | 50.0 | 44.4 | 89 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 52.9 | 106 | 43 - 157 | |
| 1,2-Dichloroethane | 50.0 | 45.2 | 90 | 65 - 133 | |
| 1,1-Dichloroethylene | 50.0 | 40.7 | 81 | 52 - 143 | |
| o-Dichlorobenzene | 50.0 | 48.1 | 96 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 50.0 | 42.3 | 85 | 35 - 154 | |
| 1,2-Dichloropropane | 50.0 | 45.0 | 90 | 77 - 118 | |
| m-Dichlorobenzene | 50.0 | 46.7 | 93 | 84 - 120 | |
| cis-1,3-Dichloropropene | 50.0 | 46.7 | 93 | 71 - 123 | |
| p-Dichlorobenzene | 50.0 | 48.1 | 96 | 67 - 133 | |
| trans-1,3-Dichloropropene | 50.0 | 47.2 | 94 | 75 - 126 | |
| Ethylbenzene | 50.0 | 48.8 | 98 | 82 - 118 | |
| 2-Hexanone | 100 | 107 | 107 | 30 - 148 | |
| cis-Dichloroethylene | 50.0 | 45.4 | 91 | 69 - 131 | |
| Methylene Chloride | 50.0 | 44.4 | 89 | 54 - 150 | |
| 1,3-Dichloropropane | 50.0 | 48.3 | 97 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 100 | 94.9 | 95 | 29 - 150 | |
| 2,2-Dichloropropane | 50.0 | 45.8 | 92 | 28 - 187 | |
| 1,1-Dichloropropene | 50.0 | 44.1 | 88 | 76 - 126 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57356**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57356/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1300
Date Prepared: N/A

Analysis Batch: 680-57356
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq594.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 47.2 | 94 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 50.8 | 102 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.5 | 95 | 64 - 130 | |
| Tetrachloroethylene | 50.0 | 49.6 | 99 | 79 - 132 | |
| Hexachlorobutadiene | 50.0 | 51.0 | 102 | 29 - 135 | |
| Toluene | 50.0 | 48.2 | 96 | 80 - 118 | |
| 1,1,1-Trichloroethane | 50.0 | 43.0 | 86 | 58 - 139 | |
| 1,1,2-Trichloroethane | 50.0 | 47.1 | 94 | 76 - 120 | |
| Trichloroethylene | 50.0 | 43.6 | 87 | 80 - 122 | |
| Isopropylbenzene | 50.0 | 48.9 | 98 | 75 - 134 | |
| Trichlorofluoromethane | 50.0 | 47.6 | 95 | 38 - 146 | |
| 1,2,3-Trichloropropane | 50.0 | 47.7 | 95 | 33 - 210 | |
| p-Isopropyltoluene | 50.0 | 49.4 | 99 | 39 - 141 | |
| Vinyl acetate | 100 | 129 | 129 | 1 - 184 | |
| Vinyl chloride | 50.0 | 47.8 | 96 | 34 - 154 | |
| Methyl tert-butyl ether | 100 | 93.2 | 93 | 37 - 168 | |
| Naphthalene | 50.0 | 48.5 | 97 | 42 - 250 | |
| N-Propylbenzene | 50.0 | 48.9 | 98 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 50.0 | 47.3 | 95 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 50.0 | 47.5 | 95 | 49 - 152 | |
| Freon 113 | 50.0 | 41.5 | 83 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 51.1 | 102 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 50.0 | 49.1 | 98 | 72 - 124 | |
| o-Xylene | 50.0 | 47.1 | 94 | 74 - 122 | |
| m-Xylene & p-Xylene | 100 | 97.5 | 97 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96 | 68 - 121 |
| Dibromofluoromethane | 95 | 66 - 127 |
| Toluene-d8 (Surr) | 95 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57457**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57457/4
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/13/2006 1421
Date Prepared: N/A

Analysis Batch: 680-57457
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq597.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 2000 | U | 120 | 2000 |
| Acetonitrile | 8000 | U | 1100 | 8000 |
| Acrolein | 4000 | U | 440 | 4000 |
| Bromobenzene | 200 | U | 37 | 200 |
| Acrylonitrile | 4000 | U | 630 | 4000 |
| Bromochloromethane | 200 | U | 38 | 200 |
| Benzene | 200 | U | 34 | 200 |
| Dichlorobromomethane | 200 | U | 40 | 200 |
| Bromoform | 200 | U | 88 | 200 |
| Methyl bromide | 200 | U | 52 | 200 |
| Methyl Ethyl Ketone | 1000 | U | 160 | 1000 |
| n-Butylbenzene | 200 | U | 40 | 200 |
| Carbon disulfide | 200 | U | 40 | 200 |
| sec-Butylbenzene | 200 | U | 44 | 200 |
| Carbon tetrachloride | 200 | U | 36 | 200 |
| tert-Butylbenzene | 200 | U | 48 | 200 |
| Chlorobenzene | 200 | U | 28 | 200 |
| Chloroethane | 200 | U | 60 | 200 |
| Chloroform | 200 | U | 35 | 200 |
| Methyl chloride | 200 | U | 28 | 200 |
| Allyl chloride | 200 | U | 48 | 200 |
| Chlorodibromomethane | 200 | U | 44 | 200 |
| 1,2-Dibromo-3-Chloropropane | 400 | U | 180 | 400 |
| 1,2-Dibromoethane | 200 | U | 56 | 200 |
| 2-Chlorotoluene | 200 | U | 56 | 200 |
| Methylene bromide | 200 | U | 52 | 200 |
| 4-Chlorotoluene | 200 | U | 31 | 200 |
| trans-1,4-Dichloro-2-butene | 400 | U | 160 | 400 |
| Dichlorodifluoromethane | 200 | U | 100 | 200 |
| 1,1-Dichloroethane | 200 | U | 40 | 200 |
| 1,2-Dichloroethane | 200 | U | 48 | 200 |
| 1,1-Dichloroethylene | 200 | U | 44 | 200 |
| o-Dichlorobenzene | 200 | U | 72 | 200 |
| trans-1,2-Dichloroethylene | 200 | U | 44 | 200 |
| 1,2-Dichloropropane | 200 | U | 52 | 200 |
| m-Dichlorobenzene | 200 | U | 44 | 200 |
| cis-1,3-Dichloropropene | 200 | U | 36 | 200 |
| p-Dichlorobenzene | 200 | U | 56 | 200 |
| trans-1,3-Dichloropropene | 200 | U | 44 | 200 |
| Ethylbenzene | 200 | U | 35 | 200 |
| Ethyl methacrylate | 200 | U | 31 | 200 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57457**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57457/4
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/13/2006 1421
Date Prepared: N/A

Analysis Batch: 680-57457
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq597.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 1000 | U | 220 | 1000 |
| cis-Dichloroethylene | 200 | U | 35 | 200 |
| Methyl iodide | 200 | U | 40 | 200 |
| Methacrylonitrile | 4000 | U | 640 | 4000 |
| Methylene Chloride | 200 | U | 64 | 200 |
| Methyl methacrylate | 200 | U | 66 | 200 |
| 1,3-Dichloropropane | 200 | U | 48 | 200 |
| 4-Methyl-2-pentanone (MIBK) | 1000 | U | 230 | 1000 |
| 2,2-Dichloropropane | 200 | U | 48 | 200 |
| Pentachloroethane | 1000 | U | 180 | 1000 |
| 1,1-Dichloropropene | 200 | U | 56 | 200 |
| Propionitrile | 4000 | U | 920 | 4000 |
| Styrene | 200 | U | 34 | 200 |
| 1,1,1,2-Tetrachloroethane | 200 | U | 56 | 200 |
| 1,1,2,2-Tetrachloroethane | 200 | U | 40 | 200 |
| Tetrachloroethylene | 200 | U | 40 | 200 |
| Hexachlorobutadiene | 200 | U | 64 | 200 |
| Toluene | 200 | U | 40 | 200 |
| 1,1,1-Trichloroethane | 200 | U | 34 | 200 |
| 1,1,2-Trichloroethane | 200 | U | 48 | 200 |
| Trichloroethylene | 200 | U | 48 | 200 |
| Isopropylbenzene | 200 | U | 40 | 200 |
| Trichlorofluoromethane | 200 | U | 56 | 200 |
| 1,2,3-Trichloropropane | 200 | U | 110 | 200 |
| p-Isopropyltoluene | 200 | U | 48 | 200 |
| Vinyl acetate | 400 | U | 76 | 400 |
| Vinyl chloride | 200 | U | 37 | 200 |
| Methyl tert-butyl ether | 2000 | U | 72 | 2000 |
| Naphthalene | 200 | U | 140 | 200 |
| N-Propylbenzene | 200 | U | 48 | 200 |
| 1,2,3-Trichlorobenzene | 200 | U | 40 | 200 |
| 1,2,4-Trichlorobenzene | 200 | U | 88 | 200 |
| Freon 113 | 200 | U | 40 | 200 |
| 1,2,4-Trimethylbenzene | 200 | U | 40 | 200 |
| 1,3,5-Trimethylbenzene | 200 | U | 52 | 200 |
| o-Xylene | 200 | U | 56 | 200 |
| m-Xylene & p-Xylene | 400 | U | 80 | 400 |
| 1-Chlorohexane | 200 | U | 31 | 200 |
| Hexane | 200 | U | 92 | 200 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95 | 68 - 121 |
| Dibromofluoromethane | 98 | 66 - 127 |
| Toluene-d8 (Surr) | 104 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57457**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57457/3
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/13/2006 1321
Date Prepared: N/A

Analysis Batch: 680-57457
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq595.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 5000 | 4610 | 92 | 28 - 143 | |
| Bromobenzene | 2500 | 2570 | 103 | 77 - 147 | |
| Bromochloromethane | 2500 | 2370 | 95 | 63 - 136 | |
| Benzene | 2500 | 2400 | 96 | 79 - 118 | |
| Dichlorobromomethane | 2500 | 2630 | 105 | 74 - 128 | |
| Bromoform | 2500 | 2380 | 95 | 62 - 137 | |
| Methyl bromide | 2500 | 2260 | 90 | 26 - 160 | |
| Methyl Ethyl Ketone | 5000 | 4230 | 85 | 30 - 149 | |
| n-Butylbenzene | 2500 | 2900 | 116 | 59 - 120 | |
| Carbon disulfide | 2500 | 1910 | 76 | 32 - 157 | |
| sec-Butylbenzene | 2500 | 2780 | 111 | 60 - 128 | |
| Carbon tetrachloride | 2500 | 2670 | 107 | 62 - 140 | |
| tert-Butylbenzene | 2500 | 2720 | 109 | 62 - 140 | |
| Chlorobenzene | 2500 | 2580 | 103 | 81 - 120 | |
| Chloroethane | 2500 | 2280 | 91 | 20 - 140 | |
| Chloroform | 2500 | 2420 | 97 | 77 - 125 | |
| Methyl chloride | 2500 | 2270 | 91 | 42 - 140 | |
| Chlorodibromomethane | 2500 | 2530 | 101 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 2500 | 2510 | 100 | 21 - 180 | |
| 1,2-Dibromoethane | 2500 | 2260 | 90 | 76 - 130 | |
| 2-Chlorotoluene | 2500 | 2620 | 105 | 49 - 219 | |
| Methylene bromide | 2500 | 2430 | 97 | 71 - 134 | |
| 4-Chlorotoluene | 2500 | 2790 | 112 | 45 - 218 | |
| Dichlorodifluoromethane | 2500 | 1780 | 71 | 70 - 130 | |
| 1,1-Dichloroethane | 2500 | 2380 | 95 | 43 - 157 | |
| 1,2-Dichloroethane | 2500 | 2640 | 106 | 65 - 133 | |
| 1,1-Dichloroethylene | 2500 | 2100 | 84 | 52 - 143 | |
| o-Dichlorobenzene | 2500 | 2670 | 107 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 2500 | 2240 | 90 | 35 - 154 | |
| 1,2-Dichloropropane | 2500 | 2510 | 101 | 77 - 118 | |
| m-Dichlorobenzene | 2500 | 2680 | 107 | 84 - 120 | |
| cis-1,3-Dichloropropene | 2500 | 2490 | 100 | 71 - 123 | |
| p-Dichlorobenzene | 2500 | 2700 | 108 | 67 - 133 | |
| trans-1,3-Dichloropropene | 2500 | 2460 | 98 | 75 - 126 | |
| Ethylbenzene | 2500 | 2680 | 107 | 82 - 118 | |
| 2-Hexanone | 5000 | 4720 | 94 | 30 - 148 | |
| cis-Dichloroethylene | 2500 | 2370 | 95 | 69 - 131 | |
| Methylene Chloride | 2500 | 2360 | 94 | 54 - 150 | |
| 1,3-Dichloropropane | 2500 | 2380 | 95 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 5000 | 4490 | 90 | 29 - 150 | |
| 2,2-Dichloropropane | 2500 | 2430 | 97 | 28 - 187 | |
| 1,1-Dichloropropene | 2500 | 2450 | 98 | 76 - 126 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57457**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57457/3
Client Matrix: Solid
Dilution: 40
Date Analyzed: 10/13/2006 1321
Date Prepared: N/A

Analysis Batch: 680-57457
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq595.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 2500 | 2660 | 106 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 2500 | 2560 | 103 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 2500 | 2310 | 92 | 64 - 130 | |
| Tetrachloroethylene | 2500 | 2690 | 108 | 79 - 132 | |
| Hexachlorobutadiene | 2500 | 2990 | 120 | 29 - 135 | |
| Toluene | 2500 | 2610 | 104 | 80 - 118 | |
| 1,1,1-Trichloroethane | 2500 | 2580 | 103 | 58 - 139 | |
| 1,1,2-Trichloroethane | 2500 | 2320 | 93 | 76 - 120 | |
| Trichloroethylene | 2500 | 2610 | 104 | 80 - 122 | |
| Isopropylbenzene | 2500 | 2690 | 108 | 75 - 134 | |
| Trichlorofluoromethane | 2500 | 765 | 31 | 38 - 146 | * |
| 1,2,3-Trichloropropane | 2500 | 2300 | 92 | 33 - 210 | |
| p-Isopropyltoluene | 2500 | 2870 | 115 | 39 - 141 | |
| Vinyl acetate | 5000 | 6120 | 122 | 1 - 184 | |
| Vinyl chloride | 2500 | 2600 | 104 | 34 - 154 | |
| Methyl tert-butyl ether | 5000 | 4860 | 97 | 37 - 168 | |
| Naphthalene | 2500 | 2520 | 101 | 42 - 250 | |
| N-Propylbenzene | 2500 | 2760 | 111 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 2500 | 2800 | 112 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 2500 | 2860 | 114 | 49 - 152 | |
| Freon 113 | 2500 | 2140 | 86 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 2500 | 2850 | 114 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 2500 | 2890 | 116 | 72 - 124 | |
| o-Xylene | 2500 | 2720 | 109 | 74 - 122 | |
| m-Xylene & p-Xylene | 5000 | 5460 | 109 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 103 | 68 - 121 |
| Dibromofluoromethane | 102 | 66 - 127 |
| Toluene-d8 (Surr) | 111 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57554**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57554/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2006 2250
Date Prepared: 10/16/2006 2250

Analysis Batch: 680-57554
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq567.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57554**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57554/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2006 2250
Date Prepared: 10/16/2006 2250

Analysis Batch: 680-57554
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq567.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 10 | U | 0.39 | 10 |
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 97 | 77 - 120 |
| Dibromofluoromethane | 99 | 75 - 123 |
| Toluene-d8 (Surr) | 102 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57554**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57554/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2006 2107
Date Prepared: 10/16/2006 2107

Analysis Batch: 680-57554
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq565.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 79.1 | 79 | 20 - 183 | |
| Bromobenzene | 50.0 | 48.8 | 98 | 55 - 131 | |
| Bromochloromethane | 50.0 | 46.8 | 94 | 50 - 154 | |
| Benzene | 50.0 | 48.1 | 96 | 74 - 122 | |
| Dichlorobromomethane | 50.0 | 53.1 | 106 | 74 - 128 | |
| Bromoform | 50.0 | 53.6 | 107 | 64 - 132 | |
| Methyl bromide | 50.0 | 31.7 | 63 | 21 - 176 | |
| Methyl Ethyl Ketone | 100 | 89.0 | 89 | 51 - 142 | |
| n-Butylbenzene | 50.0 | 52.5 | 105 | 47 - 130 | |
| Carbon disulfide | 50.0 | 36.5 | 73 | 60 - 130 | |
| sec-Butylbenzene | 50.0 | 49.9 | 100 | 53 - 125 | |
| Carbon tetrachloride | 50.0 | 53.4 | 107 | 64 - 137 | |
| tert-Butylbenzene | 50.0 | 48.8 | 98 | 51 - 134 | |
| Chlorobenzene | 50.0 | 47.2 | 94 | 75 - 123 | |
| Chloroethane | 50.0 | 32.0 | 64 | 40 - 171 | |
| Chloroform | 50.0 | 47.3 | 95 | 74 - 124 | |
| Methyl chloride | 50.0 | 37.9 | 76 | 51 - 133 | |
| Dibromochloromethane | 50.0 | 52.0 | 104 | 75 - 126 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 43.5 | 87 | 14 - 147 | |
| 1,2-Dibromoethane | 50.0 | 50.6 | 101 | 60 - 118 | |
| Methylene bromide | 50.0 | 49.2 | 98 | 70 - 130 | |
| o-Chlorotoluene | 50.0 | 48.3 | 97 | 53 - 133 | |
| p-Chlorotoluene | 50.0 | 47.5 | 95 | 47 - 132 | |
| Dichlorodifluoromethane | 50.0 | 26.2 | 52 | 70 - 130 | * |
| 1,1-Dichloroethane | 50.0 | 44.3 | 89 | 70 - 127 | |
| 1,2-Dichloroethane | 50.0 | 52.8 | 106 | 68 - 130 | |
| 1,1-Dichlorethylene | 50.0 | 46.6 | 93 | 64 - 132 | |
| o-Dichlorobenzene | 50.0 | 50.5 | 101 | 71 - 125 | |
| trans-1-2-Dichloroethylene | 50.0 | 44.6 | 89 | 67 - 130 | |
| 1,2-Dichloropropane | 50.0 | 48.6 | 97 | 74 - 123 | |
| m-Dichlorobenzene | 50.0 | 49.6 | 99 | 70 - 125 | |
| cis-1,3-Dichloropropene | 50.0 | 51.8 | 104 | 76 - 126 | |
| p-Dichlorobenzene | 50.0 | 48.0 | 96 | 65 - 127 | |
| trans-1,3-Dichloropropene | 50.0 | 53.5 | 107 | 75 - 126 | |
| Ethylbenzene | 50.0 | 48.3 | 97 | 77 - 123 | |
| 2-Hexanone | 100 | 95.9 | 96 | 58 - 139 | |
| cis-1,2-Dichloroethylene | 50.0 | 43.5 | 87 | 69 - 126 | |
| Methylene Chloride | 50.0 | 44.4 | 89 | 67 - 128 | |
| 1,3-Dichloropropane | 50.0 | 49.5 | 99 | 60 - 125 | |
| 4-Methyl-2-pentanone | 100 | 100 | 100 | 62 - 130 | |
| 2,2-Dichloropropane | 50.0 | 48.9 | 98 | 42 - 155 | |
| 1,1-Dichloropropene | 50.0 | 50.6 | 101 | 70 - 130 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57554**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57554/6
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/16/2006 2107
Date Prepared: 10/16/2006 2107

Analysis Batch: 680-57554
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq565.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 46.2 | 92 | 75 - 125 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 50.9 | 102 | 62 - 107 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.0 | 94 | 71 - 127 | |
| Tetrachloroethylene | 50.0 | 47.8 | 96 | 70 - 133 | |
| Hexachlorobutadiene | 50.0 | 54.5 | 109 | 58 - 133 | |
| Toluene | 50.0 | 47.1 | 94 | 75 - 122 | |
| 1,1,1-Trichloroethane | 50.0 | 51.2 | 102 | 70 - 132 | |
| 1,1,2-Trichloroethane | 50.0 | 48.4 | 97 | 75 - 122 | |
| Trichloroethylene | 50.0 | 46.5 | 93 | 75 - 122 | |
| Isopropylbenzene | 50.0 | 48.7 | 97 | 62 - 122 | |
| Trichlorofluoromethane | 50.0 | 48.3 | 97 | 74 - 165 | |
| 1,2,3-Trichloropropane | 50.0 | 52.3 | 105 | 60 - 147 | |
| p-Isopropyltoluene | 50.0 | 50.9 | 102 | 58 - 123 | |
| Vinyl acetate | 100 | 105 | 105 | 47 - 150 | |
| Vinyl chloride | 50.0 | 41.7 | 83 | 59 - 136 | |
| Methyl tert-butyl ether | 100 | 93.4 | 93 | 70 - 130 | |
| Naphthalene | 50.0 | 41.9 | 84 | 58 - 143 | |
| N-Propylbenzene | 50.0 | 49.2 | 98 | 53 - 125 | |
| 1,2,3-Trichlorobenzene | 50.0 | 45.2 | 90 | 38 - 130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 47.4 | 95 | 48 - 131 | |
| Freon 113 | 50.0 | 46.8 | 94 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 50.1 | 100 | 53 - 142 | |
| 1,3,5-Trimethylbenzene | 50.0 | 49.6 | 99 | 50 - 127 | |
| o-Xylene | 50.0 | 47.1 | 94 | 76 - 122 | |
| m-Xylene & p-Xylene | 100 | 93.9 | 94 | 74 - 123 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 96 | 77 - 120 |
| Dibromofluoromethane | 95 | 75 - 123 |
| Toluene-d8 (Surr) | 98 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57330/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1504
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57370
Prep Batch: 680-57330
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e4007.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57330/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1504
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57370
Prep Batch: 680-57330
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e4007.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 78 | 38 - 104 |
| 2-Fluorophenol | 80 | 36 - 101 |
| Nitrobenzene-d5 | 71 | 33 - 94 |
| Phenol-d5 | 73 | 38 - 102 |
| Terphenyl-d14 | 72 | 40 - 129 |
| 2,4,6-Tribromophenol | 47 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57330/6-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1427
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57370
Prep Batch: 680-57330
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e4005.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2460 | 74 | 36 - 108 | |
| Acenaphthylene | 3330 | 2670 | 80 | 41 - 112 | |
| Anthracene | 3330 | 2530 | 76 | 46 - 115 | |
| Benzidine | 3330 | 859 | 26 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 2700 | 81 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3240 | 97 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 3100 | 93 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 2940 | 88 | 41 - 122 | |
| Benzoic acid | 3330 | 260 | 8 | 10 - 94 | J * |
| Benzo[k]fluoranthene | 3330 | 3050 | 91 | 36 - 124 | |
| Benzyl alcohol | 3330 | 2610 | 78 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2930 | 88 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 2400 | 72 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 2850 | 85 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2800 | 84 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2300 | 69 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 2700 | 81 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 2360 | 71 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 3170 | 95 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2520 | 76 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 2530 | 76 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2680 | 81 | 42 - 111 | |
| Chrysene | 3330 | 2710 | 81 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 2950 | 89 | 41 - 124 | |
| Dibenzofuran | 3330 | 2620 | 79 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2230 | 67 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2010 | 60 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2050 | 61 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 2410 | 72 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 2670 | 80 | 43 - 108 | |
| Diethyl phthalate | 3330 | 2960 | 89 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 2560 | 77 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 2860 | 86 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2650 | 80 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 1100 | 33 | 11 - 142 | J |
| 2,4-Dinitrophenol | 3330 | 54.1 | 2 | 1 - 131 | U |
| 2,4-Dinitrotoluene | 3330 | 2780 | 83 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 2770 | 83 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 2850 | 85 | 43 - 129 | |
| Fluoranthene | 3330 | 2810 | 84 | 41 - 124 | |
| Fluorene | 3330 | 2740 | 82 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 2710 | 81 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57330/6-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1427
Date Prepared: 10/13/2006 0947

Analysis Batch: 680-57370
Prep Batch: 680-57330
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - E
Lab File ID: e4005.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 2580 | 77 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 1590 | 48 | 20 - 109 | |
| Hexachloroethane | 3330 | 2110 | 63 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2580 | 77 | 36 - 133 | |
| Isophorone | 3330 | 2870 | 86 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2550 | 77 | 39 - 104 | |
| 2-Methylphenol | 3330 | 2660 | 80 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 2820 | 85 | 37 - 106 | |
| Naphthalene | 3330 | 2370 | 71 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 3220 | 97 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 2640 | 79 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2760 | 83 | 32 - 130 | |
| Nitrobenzene | 3330 | 2550 | 76 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2290 | 69 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 3400 | 102 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 2920 | 87 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 2660 | 80 | 16 - 113 | |
| Pentachlorophenol | 3330 | 1520 | 46 | 27 - 116 | J |
| Phenanthrene | 3330 | 2510 | 75 | 47 - 114 | |
| Phenol | 3330 | 2730 | 82 | 34 - 98 | |
| Pyrene | 3330 | 2300 | 69 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2320 | 70 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 2990 | 90 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 2570 | 77 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 84 | 38 - 104 |
| 2-Fluorophenol | 88 | 36 - 101 |
| Nitrobenzene-d5 | 81 | 33 - 94 |
| Phenol-d5 | 90 | 38 - 102 |
| Terphenyl-d14 | 77 | 40 - 129 |
| 2,4,6-Tribromophenol | 96 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6891.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.11 g |
| Date Analyzed: | 10/14/2006 1530 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6892.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.13 g |
| Date Analyzed: | 10/14/2006 1558 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Acenaphthene | 69 | 50 | 36 - 108 | 32 | 50 | J | J |
| Acenaphthylene | 72 | 51 | 41 - 112 | 35 | 50 | J | J |
| Anthracene | 63 | 45 | 46 - 115 | 34 | 50 | J | J F |
| Benzidine | 9 | 0 | 1 - 95 | NC | 50 | U | U F |
| Benzo[a]anthracene | 62 | 45 | 46 - 116 | 31 | 50 | J | J F |
| Benzo[a]pyrene | 61 | 41 | 37 - 120 | 40 | 50 | J | J |
| Benzo[b]fluoranthene | 55 | 39 | 35 - 122 | 35 | 50 | J | J |
| Benzo[g,h,i]perylene | 54 | 41 | 41 - 122 | 29 | 50 | J | J |
| Benzoic acid | 0 | 0 | 10 - 94 | NC | 50 | U F | U F |
| Benzo[k]fluoranthene | 74 | 54 | 36 - 124 | 30 | 50 | J | J |
| Benzyl alcohol | 28 | 19 | 30 - 98 | 39 | 50 | J F | J F |
| Bis(2-chloroethoxy)methane | 68 | 47 | 38 - 106 | 35 | 50 | J | J |
| Bis(2-chloroethyl)ether | 61 | 41 | 30 - 98 | 41 | 50 | J | J |
| bis(chloroisopropyl) ether | 62 | 46 | 16 - 116 | 30 | 50 | J | J |
| Bis(2-ethylhexyl) phthalate | 41 | 23 | 25 - 134 | 56 | 50 | J | J F |
| 4-Bromophenyl phenyl ether | 50 | 37 | 38 - 106 | 29 | 50 | J | J F |
| Butyl benzyl phthalate | 36 | 20 | 43 - 127 | 59 | 50 | J F | J F |
| 4-Chloroaniline | 49 | 27 | 7 - 103 | 58 | 50 | J | J F |
| 4-Chloro-3-methylphenol | 45 | 28 | 39 - 113 | 45 | 50 | J | J F |
| 2-Chloronaphthalene | 65 | 47 | 41 - 110 | 31 | 50 | J | J |
| 2-Chlorophenol | 44 | 33 | 36 - 99 | 29 | 50 | J | J F |
| 4-Chlorophenyl phenyl ether | 67 | 49 | 42 - 111 | 32 | 50 | J | J |
| Chrysene | 74 | 56 | 46 - 118 | 27 | 50 | J | J |
| Dibenz(a,h)anthracene | 47 | 30 | 41 - 124 | 43 | 50 | J | J F |
| Dibenzofuran | 79 | 53 | 44 - 108 | 39 | 50 | J | J |
| 1,2-Dichlorobenzene | 56 | 42 | 35 - 93 | 29 | 50 | J | J |
| 1,3-Dichlorobenzene | 51 | 37 | 34 - 90 | 31 | 50 | J | J |
| 1,4-Dichlorobenzene | 53 | 40 | 32 - 90 | 28 | 50 | J | J |
| 3,3'-Dichlorobenzidine | 15 | 9 | 1 - 118 | 44 | 50 | J | J |
| 2,4-Dichlorophenol | 67 | 28 | 43 - 108 | 82 | 50 | J | J F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6891.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.11 g |
| Date Analyzed: | 10/14/2006 1530 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6892.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.13 g |
| Date Analyzed: | 10/14/2006 1558 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diethyl phthalate | 70 | 49 | 41 - 118 | 34 | 50 | J | J |
| 2,4-Dimethylphenol | 57 | 45 | 40 - 112 | 23 | 50 | J | J |
| Dimethyl phthalate | 64 | 46 | 43 - 114 | 33 | 50 | J | J |
| Di-n-butyl phthalate | 53 | 36 | 35 - 93 | 38 | 50 | J | J |
| 4,6-Dinitro-o-cresol | 22 | 0 | 11 - 142 | NC | 50 | U | U F |
| 2,4-Dinitrophenol | 0 | 0 | 1 - 131 | NC | 50 | U F | U F |
| 2,4-Dinitrotoluene | 58 | 38 | 32 - 128 | 43 | 50 | J | J |
| 2,6-Dinitrotoluene | 55 | 31 | 38 - 128 | 54 | 50 | J | J F |
| Di-n-octyl phthalate | 26 | 15 | 43 - 129 | 52 | 50 | J F | J F |
| Fluoranthene | 61 | 45 | 41 - 124 | 30 | 50 | J | J |
| Fluorene | 76 | 52 | 37 - 113 | 37 | 50 | J | J |
| Hexachlorobenzene | 59 | 46 | 46 - 115 | 25 | 50 | J | J |
| Hexachlorobutadiene | 71 | 50 | 42 - 105 | 35 | 50 | J | J |
| Hexachlorocyclopentadiene | 45 | 29 | 20 - 109 | 43 | 50 | J | J |
| Hexachloroethane | 298 | 201 | 31 - 88 | 39 | 50 | F | F |
| Indeno[1,2,3-cd]pyrene | 47 | 18 | 36 - 133 | 89 | 50 | J | J F |
| Isophorone | 103 | 72 | 37 - 106 | 36 | 50 | | J |
| 2-Methylnaphthalene | 192 | 66 | 39 - 104 | 40 | 50 | F | |
| 2-Methylphenol | 46 | 43 | 38 - 107 | 7 | 50 | J | J |
| 3 & 4 Methylphenol | 44 | 30 | 37 - 106 | 37 | 50 | J | J F |
| Naphthalene | 115 | 54 | 34 - 97 | 37 | 50 | F | |
| 2-Nitroaniline | 62 | 29 | 38 - 124 | 74 | 50 | J | J F |
| 3-Nitroaniline | 28 | 17 | 19 - 118 | 47 | 50 | J | J F |
| 4-Nitroaniline | 20 | 0 | 32 - 130 | NC | 50 | J F | U F |
| Nitrobenzene | 66 | 46 | 33 - 106 | 36 | 50 | J | J |
| 2-Nitrophenol | 63 | 45 | 38 - 104 | 32 | 50 | J | J |
| 4-Nitrophenol | 0 | 0 | 21 - 132 | NC | 50 | U F | U F |
| N-Nitrosodi-n-propylamine | 38 | 58 | 24 - 108 | 42 | 50 | J | J |
| N-Nitrosodiphenylamine | 62 | 44 | 16 - 113 | 34 | 50 | J | J |
| Pentachlorophenol | 18 | 10 | 27 - 116 | NC | 50 | U F | U F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6891.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.11 g |
| Date Analyzed: | 10/14/2006 1530 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21081-2 | Analysis Batch: | 680-57418 | Instrument ID: | GC/MS SemiVolatiles - G |
| Client Matrix: | Solid | Prep Batch: | 680-57330 | Lab File ID: | g6892.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 30.13 g |
| Date Analyzed: | 10/14/2006 1558 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/13/2006 0947 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Phenanthrene | 65 | 48 | 47 - 114 | 30 | 50 | J | J |
| Phenol | 40 | 29 | 34 - 98 | 32 | 50 | J | J F |
| Pyrene | 70 | 51 | 36 - 128 | 31 | 50 | J | J |
| 1,2,4-Trichlorobenzene | 62 | 46 | 36 - 98 | 31 | 50 | J | J |
| 2,4,5-Trichlorophenol | 52 | 35 | 46 - 116 | 37 | 50 | J | J F |
| 2,4,6-Trichlorophenol | 52 | 37 | 44 - 113 | 34 | 50 | J | J F |

| Surrogate | MS % Rec | | MSD % Rec | | Acceptance Limits |
|---|---|---|---|---|---|
| 2-Fluorobiphenyl | 0 | D | 0 | D | 38 - 104 |
| 2-Fluorophenol | 0 | D | 0 | D | 36 - 101 |
| Nitrobenzene-d5 | 0 | D | 0 | D | 33 - 94 |
| Phenol-d5 | 0 | D | 0 | D | 38 - 102 |
| Terphenyl-d14 | 0 | D | 0 | D | 40 - 129 |
| 2,4,6-Tribromophenol | 0 | D | 0 | D | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21081-2
Client Matrix: Solid
Dilution: 10
Date Analyzed: 10/14/2006 1530
Date Prepared: 10/13/2006 0947

Units: ug/Kg

MSD Lab Sample ID: 680-21081-2
Client Matrix: Solid
Dilution: 10
Date Analyzed: 10/14/2006 1558
Date Prepared: 10/13/2006 0947

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0 | U | 4810 | 4810 | 3320 | J | 2400 | J |
| Acenaphthylene | 0.0 | U | 4810 | 4810 | 3450 | J | 2430 | J |
| Anthracene | 0.0 | U | 4810 | 4810 | 3040 | J | 2150 | J F |
| Benzidine | 0.0 | U | 4810 | 4810 | 440 | U | 0.0 | U F |
| Benzo[a]anthracene | 0.0 | U | 4810 | 4810 | 2990 | J | 2190 | J F |
| Benzo[a]pyrene | 0.0 | U | 4810 | 4810 | 2930 | J | 1960 | J |
| Benzo[b]fluoranthene | 0.0 | U | 4810 | 4810 | 2670 | J | 1880 | J |
| Benzo[g,h,i]perylene | 0.0 | U | 4810 | 4810 | 2620 | J | 1960 | J |
| Benzoic acid | 0.0 | U | 4810 | 4810 | 0.0 | U F | 0.0 | U F |
| Benzo[k]fluoranthene | 0.0 | U | 4810 | 4810 | 3550 | J | 2610 | J |
| Benzyl alcohol | 0.0 | U | 4810 | 4810 | 1370 | J F | 924 | J F |
| Bis(2-chloroethoxy)methane | 0.0 | U | 4810 | 4810 | 3260 | J | 2280 | J |
| Bis(2-chloroethyl)ether | 0.0 | U | 4810 | 4810 | 2950 | J | 1950 | J |
| bis(chloroisopropyl) ether | 0.0 | U | 4810 | 4810 | 2990 | J | 2210 | J |
| Bis(2-ethylhexyl) phthalate | 0.0 | U | 4810 | 4810 | 1960 | J | 1100 | J F |
| 4-Bromophenyl phenyl ether | 0.0 | U | 4810 | 4810 | 2390 | J | 1790 | J F |
| Butyl benzyl phthalate | 0.0 | U | 4810 | 4810 | 1720 | J F | 942 | J F |
| 4-Chloroaniline | 0.0 | U | 4810 | 4810 | 2330 | J | 1290 | J F |
| 4-Chloro-3-methylphenol | 0.0 | U | 4810 | 4810 | 2150 | J | 1370 | J F |
| 2-Chloronaphthalene | 0.0 | U | 4810 | 4810 | 3130 | J | 2280 | J |
| 2-Chlorophenol | 0.0 | U | 4810 | 4810 | 2120 | J | 1580 | J F |
| 4-Chlorophenyl phenyl ether | 0.0 | U | 4810 | 4810 | 3230 | J | 2350 | J |
| Chrysene | 0.0 | U | 4810 | 4810 | 3550 | J | 2710 | J |
| Dibenz(a,h)anthracene | 0.0 | U | 4810 | 4810 | 2250 | J | 1460 | J F |
| Dibenzofuran | 0.0 | U | 4810 | 4810 | 3790 | J | 2540 | J |
| 1,2-Dichlorobenzene | 0.0 | U | 4810 | 4810 | 2700 | J | 2020 | J |
| 1,3-Dichlorobenzene | 0.0 | U | 4810 | 4810 | 2440 | J | 1790 | J |
| 1,4-Dichlorobenzene | 0.0 | U | 4810 | 4810 | 2540 | J | 1910 | J |
| 3,3'-Dichlorobenzidine | 0.0 | U | 4810 | 4810 | 708 | J | 454 | J |
| 2,4-Dichlorophenol | 0.0 | U | 4810 | 4810 | 3200 | J | 1340 | J F |
| Diethyl phthalate | 0.0 | U | 4810 | 4810 | 3350 | J | 2380 | J |
| 2,4-Dimethylphenol | 0.0 | U | 4810 | 4810 | 2740 | J | 2180 | J |
| Dimethyl phthalate | 0.0 | U | 4810 | 4810 | 3080 | J | 2210 | J |
| Di-n-butyl phthalate | 0.0 | U | 4810 | 4810 | 2570 | J | 1750 | J |
| 4,6-Dinitro-o-cresol | 0.0 | U | 4810 | 4810 | 1060 | U | 0.0 | U F |
| 2,4-Dinitrophenol | 0.0 | U | 4810 | 4810 | 0.0 | U F | 0.0 | U F |
| 2,4-Dinitrotoluene | 0.0 | U | 4810 | 4810 | 2790 | J | 1810 | J |
| 2,6-Dinitrotoluene | 0.0 | U | 4810 | 4810 | 2630 | J | 1510 | J F |
| Di-n-octyl phthalate | 0.0 | U | 4810 | 4810 | 1230 | J F | 722 | J F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57330**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21081-2
Client Matrix: Solid
Dilution: 10
Date Analyzed: 10/14/2006 1530
Date Prepared: 10/13/2006 0947

Units: ug/Kg

MSD Lab Sample ID: 680-21081-2
Client Matrix: Solid
Dilution: 10
Date Analyzed: 10/14/2006 1558
Date Prepared: 10/13/2006 0947

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 0.0 | U | 4810 | 4810 | 2940 | J | 2170 | J |
| Fluorene | 0.0 | U | 4810 | 4810 | 3650 | J | 2520 | J |
| Hexachlorobenzene | 0.0 | U | 4810 | 4810 | 2830 | J | 2190 | J |
| Hexachlorobutadiene | 0.0 | U | 4810 | 4810 | 3410 | J | 2400 | J |
| Hexachlorocyclopentadiene | 0.0 | U | 4810 | 4810 | 2150 | J | 1380 | J |
| Hexachloroethane | 0.0 | U | 4810 | 4810 | 14300 | F | 9660 | F |
| Indeno[1,2,3-cd]pyrene | 0.0 | U | 4810 | 4810 | 2280 | J | 871 | J F |
| Isophorone | 0.0 | U | 4810 | 4810 | 4940 | | 3440 | J |
| 2-Methylnaphthalene | 9030 | | 4810 | 4810 | 18200 | F | 12200 | |
| 2-Methylphenol | 0.0 | U | 4810 | 4810 | 2210 | J | 2060 | J |
| 3 & 4 Methylphenol | 0.0 | U | 4810 | 4810 | 2140 | J | 1460 | J F |
| Naphthalene | 3970 | J | 4810 | 4810 | 9510 | F | 6560 | |
| 2-Nitroaniline | 0.0 | U | 4810 | 4810 | 2990 | J | 1380 | J F |
| 3-Nitroaniline | 0.0 | U | 4810 | 4810 | 1330 | J | 823 | J F |
| 4-Nitroaniline | 0.0 | U | 4810 | 4810 | 985 | J F | 0.0 | U F |
| Nitrobenzene | 0.0 | U | 4810 | 4810 | 3170 | J | 2210 | J |
| 2-Nitrophenol | 0.0 | U | 4810 | 4810 | 3010 | J | 2170 | J |
| 4-Nitrophenol | 0.0 | U | 4810 | 4810 | 0.0 | U F | 0.0 | U F |
| N-Nitrosodi-n-propylamine | 0.0 | U | 4810 | 4810 | 1810 | J | 2780 | J |
| N-Nitrosodiphenylamine | 0.0 | U | 4810 | 4810 | 3000 | J | 2120 | J |
| Pentachlorophenol | 0.0 | U | 4810 | 4810 | 857 | U F | 502 | U F |
| Phenanthrene | 0.0 | U | 4810 | 4810 | 3130 | J | 2320 | J |
| Phenol | 0.0 | U | 4810 | 4810 | 1900 | J | 1380 | J F |
| Pyrene | 0.0 | U | 4810 | 4810 | 3360 | J | 2460 | J |
| 1,2,4-Trichlorobenzene | 0.0 | U | 4810 | 4810 | 3000 | J | 2200 | J |
| 2,4,5-Trichlorophenol | 0.0 | U | 4810 | 4810 | 2480 | J | 1700 | J F |
| 2,4,6-Trichlorophenol | 0.0 | U | 4810 | 4810 | 2510 | J | 1780 | J F |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57483**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57483/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 1421
Date Prepared: 10/16/2006 1245

Analysis Batch: 680-57489
Prep Batch: 680-57483
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5465.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57483**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57483/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 1421
Date Prepared: 10/16/2006 1245

Analysis Batch: 680-57489
Prep Batch: 680-57483
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5465.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 80 | 38 - 104 |
| 2-Fluorophenol | 69 | 36 - 101 |
| Nitrobenzene-d5 | 65 | 33 - 94 |
| Phenol-d5 | 71 | 38 - 102 |
| Terphenyl-d14 | 95 | 40 - 129 |
| 2,4,6-Tribromophenol | 65 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57483**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57483/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 1545
Date Prepared: 10/16/2006 1245

Analysis Batch: 680-57489
Prep Batch: 680-57483
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5468.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2850 | 85 | 36 - 108 | |
| Acenaphthylene | 3330 | 2960 | 89 | 41 - 112 | |
| Anthracene | 3330 | 2950 | 89 | 46 - 115 | |
| Benzidine | 3330 | 1840 | 55 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 3010 | 90 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3390 | 102 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 3220 | 97 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 3140 | 94 | 41 - 122 | |
| Benzoic acid | 3330 | 1180 | 36 | 10 - 94 | J |
| Benzo[k]fluoranthene | 3330 | 3300 | 99 | 36 - 124 | |
| Benzyl alcohol | 3330 | 2380 | 71 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2610 | 78 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 2250 | 67 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 2200 | 66 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2720 | 81 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2410 | 72 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 2800 | 84 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 2220 | 67 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 2730 | 82 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2770 | 83 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 2460 | 74 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2780 | 83 | 42 - 111 | |
| Chrysene | 3330 | 3080 | 92 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 3200 | 96 | 41 - 124 | |
| Dibenzofuran | 3330 | 2770 | 83 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2390 | 72 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2250 | 67 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2320 | 70 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 2040 | 61 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 2750 | 82 | 43 - 108 | |
| Diethyl phthalate | 3330 | 2750 | 83 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 2900 | 87 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 2770 | 83 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2630 | 79 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 2040 | 61 | 11 - 142 | |
| 2,4-Dinitrophenol | 3330 | 1030 | 31 | 1 - 131 | J |
| 2,4-Dinitrotoluene | 3330 | 2870 | 86 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 2910 | 87 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 2700 | 81 | 43 - 129 | |
| Fluoranthene | 3330 | 2890 | 87 | 41 - 124 | |
| Fluorene | 3330 | 2920 | 88 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 2820 | 85 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Lab Control Spike - Batch: 680-57483**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57483/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 1545
Date Prepared: 10/16/2006 1245

Analysis Batch: 680-57489
Prep Batch: 680-57483
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5468.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 2730 | 82 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 2650 | 80 | 20 - 109 | |
| Hexachloroethane | 3330 | 2180 | 65 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 3040 | 91 | 36 - 133 | |
| Isophorone | 3330 | 2570 | 77 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2570 | 77 | 39 - 104 | |
| 2-Methylphenol | 3330 | 2610 | 78 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 2520 | 76 | 37 - 106 | |
| Naphthalene | 3330 | 2640 | 79 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 2700 | 81 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 2510 | 75 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2750 | 82 | 32 - 130 | |
| Nitrobenzene | 3330 | 2430 | 73 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2500 | 75 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 2550 | 77 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 2260 | 68 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 2820 | 85 | 16 - 113 | |
| Pentachlorophenol | 3330 | 2690 | 81 | 27 - 116 | |
| Phenanthrene | 3330 | 2840 | 85 | 47 - 114 | |
| Phenol | 3330 | 2490 | 75 | 34 - 98 | |
| Pyrene | 3330 | 2870 | 86 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2560 | 77 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 2840 | 85 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 2830 | 85 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 91 | 38 - 104 |
| 2-Fluorophenol | 79 | 36 - 101 |
| Nitrobenzene-d5 | 77 | 33 - 94 |
| Phenol-d5 | 83 | 38 - 102 |
| Terphenyl-d14 | 90 | 40 - 129 |
| 2,4,6-Tribromophenol | 91 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57498**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-57498/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1210
Date Prepared: N/A

Analysis Batch: 680-57498
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC13A6.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 5.0 | U | 1.6 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 89 | 61 - 139 |

**Lab Control Spike - Batch: 680-57498**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57498/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1132
Date Prepared: N/A

Analysis Batch: 680-57498
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC13A5.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 40.0 | 41.8 | 105 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 94 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57499**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-57499/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 0942
Date Prepared: N/A

Analysis Batch: 680-57499
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC13A4.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 0.25 | U | 0.082 | 0.25 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 86 | 61 - 139 |

**Lab Control Spike - Batch: 680-57499**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57499/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 0905
Date Prepared: N/A

Analysis Batch: 680-57499
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC13A3.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1.00 | 0.943 | 94 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 90 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57504**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-57504/2
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 0938
Date Prepared: N/A

Analysis Batch: 680-57504
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC16A4.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 5.0 | U | 1.6 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 87 | 61 - 139 |

**Lab Control Spike - Batch: 680-57504**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57504/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/16/2006 0900
Date Prepared: N/A

Analysis Batch: 680-57504
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC16A3.d
Initial Weight/Volume: 250 uL
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 40.0 | 40.7 | 102 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 87 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Method Blank - Batch: 680-57321**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: MB 680-57321/13-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1616
Date Prepared: 10/13/2006 0900

Analysis Batch: 680-57409
Prep Batch: 680-57321
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0130008.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 2.1 | J | 1.7 | 3.3 |
| Oil Range Organics (C20-C36) | 17 | U | 8.5 | 17 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 100 | 15 - 154 |

**Lab Control Spike - Batch: 680-57321**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57321/14-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/13/2006 1634
Date Prepared: 10/13/2006 0900

Analysis Batch: 680-57409
Prep Batch: 680-57321
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0130009.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 32.1 | 96 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 142 | 15 - 154 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request



Project Number: 9040238.11.01

P.0. NA

Chain of Custody Number [1]:101220061

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code [2] | Sample Number [3] | Sample Matrix [4] | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sample Analysis Requested [5] | | | | | | | | | Quality Assurance Samples [6] | |
| WPOL-SW25 | W-POL | 12-Oct-06 | 9:15 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| WPOL-SW26 | W-POL | 12-Oct-06 | 9:30 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| WPOL-SW27 | W-POL | 12-Oct-06 | 9:45 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| WPOL-SW28 | W-POL | 12-Oct-06 | 10:00 | 3' | 4' | N | 1 | SO | 7 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| Trip Blank | | | | | | TB | | | 1 | [1] | | | | | | | | Trip Blank | 1 |
| | | | | | | | | | | | | * | Carbon chain | | | | | includes DRO | |

**STL**
**5102 La Roche Ave**
**Savanna GA 31404**

**Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, keving@zianet.com**

RUSH!!

**Custody Transfers Prior to Receipt by Laboratory**

| | Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|---|
| 1. | [signature] | 10/12/2006 | @ 1600 | KG | 10/13/06 | 0945 |
| 2. | | | | | | |
| 3. | | | | | | |

**Sample Delivery Details / Laboratory Receipt**

| | | | |
|---|---|---|---|
| Delivered Directly to Lab: | | Shipped No.: | |
| Method of Shipment: | Fed Ex | Airbill Number: | |
| Analytical Lab: | STL | Delivery Location: | Savanna GA |
| Lab Recipient: | | Delivery Date/Time: | |

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP.: 0.1

680-21081

RUSH!

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bhate Engineering

Job Number: 680-21081-1
Sdg Number: HOLL011

**Login Number: 21081**

| Question | T/F/NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | NA | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | NA | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | NA | |
| Samples do not require splitting or compositing. | NA | |

# ANALYTICAL REPORT

Job Number: 680-21161-1

SDG Number: HOLL012

Job Description: HOLLOMAN AFB

For:
Bhate Engineering
1608 13th Avenue South
Suite 300
Birmingham, AL 35205

Attention: Judy Solomon

Linda Wolfe
Project Manager I
lwolfe@stl-inc.com
10/19/2006

Project Manager: Linda Wolfe

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the STL Project Manager who signed this report.

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Lab Sample ID<br>Analyte | Client Sample ID | Result / Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|
| **680-21161-1** | **WPOL-SW29** | | | | |
| Percent Moisture | | 30 | 1.0 | % | PercentMoisture |
| Percent Solids | | 70 | 1.0 | % | PercentMoisture |
| **680-21161-2** | **WPOL-SW30** | | | | |
| Percent Moisture | | 28 | 1.0 | % | PercentMoisture |
| Percent Solids | | 72 | 1.0 | % | PercentMoisture |
| **680-21161-3** | **WPOL-SW31** | | | | |
| Percent Moisture | | 27 | 1.0 | % | PercentMoisture |
| Percent Solids | | 73 | 1.0 | % | PercentMoisture |

# METHOD SUMMARY

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | STL SAV | SW846 8270C | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | STL SAV | SW846 8015B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | STL SAV | SW846 8015B | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Percent Moisture | STL SAV | EPA PercentMoisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Purge-and-Trap | STL SAV | | SW846 5030B |

## LAB REFERENCES:

STL SAV = STL Savannah

## METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-21161-1 | WPOL-SW29 | Solid | 10/16/2006 0900 | 10/17/2006 0900 |
| 680-21161-2 | WPOL-SW30 | Solid | 10/16/2006 0915 | 10/17/2006 0900 |
| 680-21161-3 | WPOL-SW31 | Solid | 10/16/2006 0930 | 10/17/2006 0900 |
| 680-21161-4 | Trip Blank | Water | 10/16/2006 0900 | 10/17/2006 0900 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW29**

Lab Sample ID: 680-21161-1
Client Matrix: Solid
% Moisture: 29.7
Date Sampled: 10/16/2006 0900
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1351
Date Prepared: 10/17/2006 1302

Analysis Batch: 680-57681
Prep Batch: 680-57615

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1116.d
Initial Weight/Volume: 5.2 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 66 | U | 3.9 | 66 |
| Acetonitrile | | 260 | U | 37 | 260 |
| Acrolein | | 130 | U | 14 | 130 |
| Bromobenzene | | 6.6 | U | 1.2 | 6.6 |
| Bromochloromethane | | 6.6 | U | 1.2 | 6.6 |
| Acrylonitrile | | 130 | U | 21 | 130 |
| Benzene | | 6.6 | U | 1.1 | 6.6 |
| Dichlorobromomethane | | 6.6 | U | 1.3 | 6.6 |
| Bromoform | | 6.6 | U | 2.9 | 6.6 |
| Methyl bromide | | 6.6 | U | 1.7 | 6.6 |
| n-Butylbenzene | | 6.6 | U | 1.3 | 6.6 |
| Methyl Ethyl Ketone | | 33 | U | 5.3 | 33 |
| Carbon disulfide | | 6.6 | U | 1.3 | 6.6 |
| sec-Butylbenzene | | 6.6 | U | 1.4 | 6.6 |
| Carbon tetrachloride | | 6.6 | U | 1.2 | 6.6 |
| tert-Butylbenzene | | 6.6 | U | 1.6 | 6.6 |
| Chlorobenzene | | 6.6 | U | 0.91 | 6.6 |
| Chloroethane | | 6.6 | U | 2.0 | 6.6 |
| Chloroform | | 6.6 | U | 1.2 | 6.6 |
| Methyl chloride | | 6.6 | U | 0.92 | 6.6 |
| Allyl chloride | | 6.6 | U | 1.6 | 6.6 |
| Chlorodibromomethane | | 6.6 | U | 1.4 | 6.6 |
| 1,2-Dibromo-3-Chloropropane | | 13 | U | 6.0 | 13 |
| 1,2-Dibromoethane | | 6.6 | U | 1.8 | 6.6 |
| 2-Chlorotoluene | | 6.6 | U | 1.8 | 6.6 |
| Methylene bromide | | 6.6 | U | 1.7 | 6.6 |
| trans-1,4-Dichloro-2-butene | | 13 | U | 5.3 | 13 |
| 4-Chlorotoluene | | 6.6 | U | 1.0 | 6.6 |
| Dichlorodifluoromethane | | 6.6 | U | 3.3 | 6.6 |
| 1,1-Dichloroethane | | 6.6 | U | 1.3 | 6.6 |
| 1,2-Dichloroethane | | 6.6 | U | 1.6 | 6.6 |
| 1,1-Dichloroethylene | | 6.6 | U | 1.4 | 6.6 |
| o-Dichlorobenzene | | 6.6 | U | 2.4 | 6.6 |
| trans-1,2-Dichloroethylene | | 6.6 | U | 1.4 | 6.6 |
| m-Dichlorobenzene | | 6.6 | U | 1.4 | 6.6 |
| 1,2-Dichloropropane | | 6.6 | U | 1.7 | 6.6 |
| cis-1,3-Dichloropropene | | 6.6 | U | 1.2 | 6.6 |
| p-Dichlorobenzene | | 6.6 | U | 1.8 | 6.6 |
| trans-1,3-Dichloropropene | | 6.6 | U | 1.4 | 6.6 |
| Ethylbenzene | | 6.6 | U | 1.1 | 6.6 |
| Ethyl methacrylate | | 6.6 | U | 1.0 | 6.6 |
| 2-Hexanone | | 33 | U | 7.1 | 33 |
| Methyl iodide | | 6.6 | U | 1.3 | 6.6 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW29**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-1 | | | Date Sampled: | 10/16/2006 0900 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/17/2006 0900 |

**8260B Volatile Organic Compounds by GC/MS**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8260B | Analysis Batch: 680-57681 | | Instrument ID: | GC/MS Volatiles - L |
| Preparation: | 5035 | Prep Batch: 680-57615 | | Lab File ID: | I1116.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.2 g |
| Date Analyzed: | 10/18/2006 1351 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/17/2006 1302 | | | | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 6.6 | U | 1.2 | 6.6 |
| Methacrylonitrile | | 130 | U | 21 | 130 |
| Methylene Chloride | | 6.6 | U | 2.1 | 6.6 |
| Methyl methacrylate | | 6.6 | U | 2.2 | 6.6 |
| 1,3-Dichloropropane | | 6.6 | U | 1.6 | 6.6 |
| 4-Methyl-2-pentanone (MIBK) | | 33 | U | 7.6 | 33 |
| Pentachloroethane | | 33 | U | 6.0 | 33 |
| 2,2-Dichloropropane | | 6.6 | U | 1.6 | 6.6 |
| Propionitrile | | 130 | U | 30 | 130 |
| 1,1-Dichloropropene | | 6.6 | U | 1.8 | 6.6 |
| Styrene | | 6.6 | U | 1.1 | 6.6 |
| 1,1,1,2-Tetrachloroethane | | 6.6 | U | 1.8 | 6.6 |
| 1,1,2,2-Tetrachloroethane | | 6.6 | U | 1.3 | 6.6 |
| Tetrachloroethylene | | 6.6 | U | 1.3 | 6.6 |
| Toluene | | 6.6 | U | 1.3 | 6.6 |
| Hexachlorobutadiene | | 6.6 | U | 2.1 | 6.6 |
| 1,1,1-Trichloroethane | | 6.6 | U | 1.1 | 6.6 |
| 1,1,2-Trichloroethane | | 6.6 | U | 1.6 | 6.6 |
| Trichloroethylene | | 6.6 | U | 1.6 | 6.6 |
| Isopropylbenzene | | 6.6 | U | 1.3 | 6.6 |
| Trichlorofluoromethane | | 6.6 | U | 1.8 | 6.6 |
| 1,2,3-Trichloropropane | | 6.6 | U | 3.6 | 6.6 |
| p-Isopropyltoluene | | 6.6 | U | 1.6 | 6.6 |
| Vinyl acetate | | 13 | U | 2.5 | 13 |
| Vinyl chloride | | 6.6 | U | 1.2 | 6.6 |
| Methyl tert-butyl ether | | 66 | U | 2.4 | 66 |
| Naphthalene | | 6.6 | U | 4.5 | 6.6 |
| N-Propylbenzene | | 6.6 | U | 1.6 | 6.6 |
| 1,2,3-Trichlorobenzene | | 6.6 | U | 1.3 | 6.6 |
| 1,2,4-Trichlorobenzene | | 6.6 | U | 2.9 | 6.6 |
| Freon 113 | | 6.6 | U | 1.3 | 6.6 |
| 1,2,4-Trimethylbenzene | | 6.6 | U | 1.3 | 6.6 |
| 1,3,5-Trimethylbenzene | | 6.6 | U | 1.7 | 6.6 |
| o-Xylene | | 6.6 | U | 1.8 | 6.6 |
| m-Xylene & p-Xylene | | 13 | U | 2.6 | 13 |
| 1-Chlorohexane | | 6.6 | U | 1.0 | 6.6 |
| Hexane | | 6.6 | U | 3.0 | 6.6 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 103 | 68 - 121 |
| Dibromofluoromethane | 104 | 66 - 127 |
| Toluene-d8 (Surr) | 100 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW30**

Lab Sample ID: 680-21161-2
Client Matrix: Solid
% Moisture: 28.4
Date Sampled: 10/16/2006 0915
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1411
Date Prepared: 10/17/2006 1302

Analysis Batch: 680-57681
Prep Batch: 680-57615

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1117.d
Initial Weight/Volume: 5.6 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 56 | U | 3.3 | 56 |
| Acetonitrile | | 220 | U | 31 | 220 |
| Acrolein | | 110 | U | 12 | 110 |
| Bromobenzene | | 5.6 | U | 1.0 | 5.6 |
| Bromochloromethane | | 5.6 | U | 1.1 | 5.6 |
| Acrylonitrile | | 110 | U | 17 | 110 |
| Benzene | | 5.6 | U * | 0.96 | 5.6 |
| Dichlorobromomethane | | 5.6 | U | 1.1 | 5.6 |
| Bromoform | | 5.6 | U | 2.5 | 5.6 |
| Methyl bromide | | 5.6 | U | 1.4 | 5.6 |
| n-Butylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Methyl Ethyl Ketone | | 28 | U | 4.5 | 28 |
| Carbon disulfide | | 5.6 | U | 1.1 | 5.6 |
| sec-Butylbenzene | | 5.6 | U | 1.2 | 5.6 |
| Carbon tetrachloride | | 5.6 | U | 0.99 | 5.6 |
| tert-Butylbenzene | | 5.6 | U | 1.3 | 5.6 |
| Chlorobenzene | | 5.6 | U | 0.77 | 5.6 |
| Chloroethane | | 5.6 | U | 1.7 | 5.6 |
| Chloroform | | 5.6 | U | 0.98 | 5.6 |
| Methyl chloride | | 5.6 | U | 0.78 | 5.6 |
| Allyl chloride | | 5.6 | U | 1.3 | 5.6 |
| Chlorodibromomethane | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dibromo-3-Chloropropane | | 11 | U | 5.1 | 11 |
| 1,2-Dibromoethane | | 5.6 | U | 1.6 | 5.6 |
| 2-Chlorotoluene | | 5.6 | U | 1.6 | 5.6 |
| Methylene bromide | | 5.6 | U | 1.4 | 5.6 |
| trans-1,4-Dichloro-2-butene | | 11 | U | 4.5 | 11 |
| 4-Chlorotoluene | | 5.6 | U | 0.87 | 5.6 |
| Dichlorodifluoromethane | | 5.6 | U | 2.8 | 5.6 |
| 1,1-Dichloroethane | | 5.6 | U | 1.1 | 5.6 |
| 1,2-Dichloroethane | | 5.6 | U | 1.3 | 5.6 |
| 1,1-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| o-Dichlorobenzene | | 5.6 | U | 2.0 | 5.6 |
| trans-1,2-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| m-Dichlorobenzene | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dichloropropane | | 5.6 | U | 1.4 | 5.6 |
| cis-1,3-Dichloropropene | | 5.6 | U | 1.0 | 5.6 |
| p-Dichlorobenzene | | 5.6 | U | 1.6 | 5.6 |
| trans-1,3-Dichloropropene | | 5.6 | U | 1.2 | 5.6 |
| Ethylbenzene | | 5.6 | U | 0.97 | 5.6 |
| Ethyl methacrylate | | 5.6 | U | 0.86 | 5.6 |
| 2-Hexanone | | 28 | U | 6.0 | 28 |
| Methyl iodide | | 5.6 | U | 1.1 | 5.6 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW30**

Lab Sample ID: 680-21161-2
Client Matrix: Solid
% Moisture: 28.4
Date Sampled: 10/16/2006 0915
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1411
Date Prepared: 10/17/2006 1302

Analysis Batch: 680-57681
Prep Batch: 680-57615

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1117.d
Initial Weight/Volume: 5.6 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.6 | U | 0.98 | 5.6 |
| Methacrylonitrile | | 110 | U | 18 | 110 |
| Methylene Chloride | | 5.6 | U | 1.8 | 5.6 |
| Methyl methacrylate | | 5.6 | U | 1.8 | 5.6 |
| 1,3-Dichloropropane | | 5.6 | U | 1.3 | 5.6 |
| 4-Methyl-2-pentanone (MIBK) | | 28 | U | 6.5 | 28 |
| Pentachloroethane | | 28 | U | 5.1 | 28 |
| 2,2-Dichloropropane | | 5.6 | U | 1.3 | 5.6 |
| Propionitrile | | 110 | U | 26 | 110 |
| 1,1-Dichloropropene | | 5.6 | U | 1.6 | 5.6 |
| Styrene | | 5.6 | U | 0.95 | 5.6 |
| 1,1,1,2-Tetrachloroethane | | 5.6 | U | 1.6 | 5.6 |
| 1,1,2,2-Tetrachloroethane | | 5.6 | U | 1.1 | 5.6 |
| Tetrachloroethylene | | 5.6 | U | 1.1 | 5.6 |
| Toluene | | 5.6 | U | 1.1 | 5.6 |
| Hexachlorobutadiene | | 5.6 | U | 1.8 | 5.6 |
| 1,1,1-Trichloroethane | | 5.6 | U | 0.95 | 5.6 |
| 1,1,2-Trichloroethane | | 5.6 | U | 1.3 | 5.6 |
| Trichloroethylene | | 5.6 | U | 1.3 | 5.6 |
| Isopropylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Trichlorofluoromethane | | 5.6 | U | 1.6 | 5.6 |
| 1,2,3-Trichloropropane | | 5.6 | U | 3.0 | 5.6 |
| p-Isopropyltoluene | | 5.6 | U | 1.3 | 5.6 |
| Vinyl acetate | | 11 | U | 2.1 | 11 |
| Vinyl chloride | | 5.6 | U | 1.0 | 5.6 |
| Methyl tert-butyl ether | | 56 | U | 2.0 | 56 |
| Naphthalene | | 5.6 | U | 3.8 | 5.6 |
| N-Propylbenzene | | 5.6 | U | 1.3 | 5.6 |
| 1,2,3-Trichlorobenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,2,4-Trichlorobenzene | | 5.6 | U | 2.5 | 5.6 |
| Freon 113 | | 5.6 | U * | 1.1 | 5.6 |
| 1,2,4-Trimethylbenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,3,5-Trimethylbenzene | | 5.6 | U | 1.4 | 5.6 |
| o-Xylene | | 5.6 | U | 1.6 | 5.6 |
| m-Xylene & p-Xylene | | 11 | U | 2.2 | 11 |
| 1-Chlorohexane | | 5.6 | U | 0.87 | 5.6 |
| Hexane | | 5.6 | U | 2.6 | 5.6 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 106 | 68 - 121 |
| Dibromofluoromethane | 103 | 66 - 127 |
| Toluene-d8 (Surr) | 108 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW31**

Lab Sample ID: 680-21161-3
Client Matrix: Solid
% Moisture: 26.6
Date Sampled: 10/16/2006 0930
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1432
Date Prepared: 10/17/2006 1302

Analysis Batch: 680-57681
Prep Batch: 680-57615

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1118.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 74 | U | 4.4 | 74 |
| Acetonitrile | | 300 | U | 41 | 300 |
| Acrolein | | 150 | U | 16 | 150 |
| Bromobenzene | | 7.4 | U | 1.4 | 7.4 |
| Bromochloromethane | | 7.4 | U | 1.4 | 7.4 |
| Acrylonitrile | | 150 | U | 23 | 150 |
| Benzene | | 7.4 | U * | 1.3 | 7.4 |
| Dichlorobromomethane | | 7.4 | U | 1.5 | 7.4 |
| Bromoform | | 7.4 | U | 3.3 | 7.4 |
| Methyl bromide | | 7.4 | U | 1.9 | 7.4 |
| n-Butylbenzene | | 7.4 | U | 1.5 | 7.4 |
| Methyl Ethyl Ketone | | 37 | U | 5.9 | 37 |
| Carbon disulfide | | 7.4 | U | 1.5 | 7.4 |
| sec-Butylbenzene | | 7.4 | U | 1.6 | 7.4 |
| Carbon tetrachloride | | 7.4 | U | 1.3 | 7.4 |
| tert-Butylbenzene | | 7.4 | U | 1.8 | 7.4 |
| Chlorobenzene | | 7.4 | U | 1.0 | 7.4 |
| Chloroethane | | 7.4 | U | 2.2 | 7.4 |
| Chloroform | | 7.4 | U | 1.3 | 7.4 |
| Methyl chloride | | 7.4 | U | 1.0 | 7.4 |
| Allyl chloride | | 7.4 | U | 1.8 | 7.4 |
| Chlorodibromomethane | | 7.4 | U | 1.6 | 7.4 |
| 1,2-Dibromo-3-Chloropropane | | 15 | U | 6.8 | 15 |
| 1,2-Dibromoethane | | 7.4 | U | 2.1 | 7.4 |
| 2-Chlorotoluene | | 7.4 | U | 2.1 | 7.4 |
| Methylene bromide | | 7.4 | U | 1.9 | 7.4 |
| trans-1,4-Dichloro-2-butene | | 15 | U | 5.9 | 15 |
| 4-Chlorotoluene | | 7.4 | U | 1.2 | 7.4 |
| Dichlorodifluoromethane | | 7.4 | U | 3.7 | 7.4 |
| 1,1-Dichloroethane | | 7.4 | U | 1.5 | 7.4 |
| 1,2-Dichloroethane | | 7.4 | U | 1.8 | 7.4 |
| 1,1-Dichloroethylene | | 7.4 | U | 1.6 | 7.4 |
| o-Dichlorobenzene | | 7.4 | U | 2.7 | 7.4 |
| trans-1,2-Dichloroethylene | | 7.4 | U | 1.6 | 7.4 |
| m-Dichlorobenzene | | 7.4 | U | 1.6 | 7.4 |
| 1,2-Dichloropropane | | 7.4 | U | 1.9 | 7.4 |
| cis-1,3-Dichloropropene | | 7.4 | U | 1.3 | 7.4 |
| p-Dichlorobenzene | | 7.4 | U | 2.1 | 7.4 |
| trans-1,3-Dichloropropene | | 7.4 | U | 1.6 | 7.4 |
| Ethylbenzene | | 7.4 | U | 1.3 | 7.4 |
| Ethyl methacrylate | | 7.4 | U | 1.1 | 7.4 |
| 2-Hexanone | | 37 | U | 8.0 | 37 |
| Methyl iodide | | 7.4 | U | 1.5 | 7.4 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW31**

Lab Sample ID: 680-21161-3
Client Matrix: Solid
% Moisture: 26.6
Date Sampled: 10/16/2006 0930
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1432
Date Prepared: 10/17/2006 1302

Analysis Batch: 680-57681
Prep Batch: 680-57615

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1118.d
Initial Weight/Volume: 4.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 7.4 | U | 1.3 | 7.4 |
| Methacrylonitrile | | 150 | U | 24 | 150 |
| Methylene Chloride | | 7.4 | U | 2.4 | 7.4 |
| Methyl methacrylate | | 7.4 | U | 2.5 | 7.4 |
| 1,3-Dichloropropane | | 7.4 | U | 1.8 | 7.4 |
| 4-Methyl-2-pentanone (MIBK) | | 37 | U | 8.6 | 37 |
| Pentachloroethane | | 37 | U | 6.8 | 37 |
| 2,2-Dichloropropane | | 7.4 | U | 1.8 | 7.4 |
| Propionitrile | | 150 | U | 34 | 150 |
| 1,1-Dichloropropene | | 7.4 | U | 2.1 | 7.4 |
| Styrene | | 7.4 | U | 1.3 | 7.4 |
| 1,1,1,2-Tetrachloroethane | | 7.4 | U | 2.1 | 7.4 |
| 1,1,2,2-Tetrachloroethane | | 7.4 | U | 1.5 | 7.4 |
| Tetrachloroethylene | | 7.4 | U | 1.5 | 7.4 |
| Toluene | | 7.4 | U | 1.5 | 7.4 |
| Hexachlorobutadiene | | 7.4 | U | 2.4 | 7.4 |
| 1,1,1-Trichloroethane | | 7.4 | U | 1.3 | 7.4 |
| 1,1,2-Trichloroethane | | 7.4 | U | 1.8 | 7.4 |
| Trichloroethylene | | 7.4 | U | 1.8 | 7.4 |
| Isopropylbenzene | | 7.4 | U | 1.5 | 7.4 |
| Trichlorofluoromethane | | 7.4 | U | 2.1 | 7.4 |
| 1,2,3-Trichloropropane | | 7.4 | U | 4.0 | 7.4 |
| p-Isopropyltoluene | | 7.4 | U | 1.8 | 7.4 |
| Vinyl acetate | | 15 | U | 2.8 | 15 |
| Vinyl chloride | | 7.4 | U | 1.4 | 7.4 |
| Methyl tert-butyl ether | | 74 | U | 2.7 | 74 |
| Naphthalene | | 7.4 | U | 5.0 | 7.4 |
| N-Propylbenzene | | 7.4 | U | 1.8 | 7.4 |
| 1,2,3-Trichlorobenzene | | 7.4 | U | 1.5 | 7.4 |
| 1,2,4-Trichlorobenzene | | 7.4 | U | 3.3 | 7.4 |
| Freon 113 | | 7.4 | U * | 1.5 | 7.4 |
| 1,2,4-Trimethylbenzene | | 7.4 | U | 1.5 | 7.4 |
| 1,3,5-Trimethylbenzene | | 7.4 | U | 1.9 | 7.4 |
| o-Xylene | | 7.4 | U | 2.1 | 7.4 |
| m-Xylene & p-Xylene | | 15 | U | 3.0 | 15 |
| 1-Chlorohexane | | 7.4 | U | 1.2 | 7.4 |
| Hexane | | 7.4 | U | 3.4 | 7.4 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 68 - 121 |
| Dibromofluoromethane | 104 | 66 - 127 |
| Toluene-d8 (Surr) | 99 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21161-4
Client Matrix: Water

Date Sampled: 10/16/2006 0900
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/18/2006 1316
Date Prepared: 10/18/2006 1316

Analysis Batch: 680-57680

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1533.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21161-4
Client Matrix: Water

Date Sampled: 10/16/2006 0900
Date Received: 10/17/2006 0900

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/18/2006 1316
Date Prepared: 10/18/2006 1316

Analysis Batch: 680-57680

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1533.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 93 | 77 - 120 |
| Dibromofluoromethane | 88 | 75 - 123 |
| Toluene-d8 (Surr) | 98 | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW29**

Lab Sample ID: 680-21161-1
Client Matrix: Solid
% Moisture: 29.7
Date Sampled: 10/16/2006 0900
Date Received: 10/17/2006 0900

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/17/2006 1643
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5487.d
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 470 | U | 27 | 470 |
| Acenaphthylene | | 470 | U | 24 | 470 |
| Anthracene | | 470 | U | 33 | 470 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 470 | U | 44 | 470 |
| Benzo[a]pyrene | | 470 | U | 27 | 470 |
| Benzo[b]fluoranthene | | 470 | U | 37 | 470 |
| Benzo[g,h,i]perylene | | 470 | U | 33 | 470 |
| Benzoic acid | | 2400 | U | 240 | 2400 |
| Benzo[k]fluoranthene | | 470 | U | 51 | 470 |
| Benzyl alcohol | | 470 | U | 54 | 470 |
| Bis(2-chloroethoxy)methane | | 470 | U | 34 | 470 |
| Bis(2-chloroethyl)ether | | 470 | U | 40 | 470 |
| bis(chloroisopropyl) ether | | 470 | U | 50 | 470 |
| Bis(2-ethylhexyl) phthalate | | 470 | U | 54 | 470 |
| 4-Bromophenyl phenyl ether | | 470 | U | 44 | 470 |
| Butyl benzyl phthalate | | 470 | U | 38 | 470 |
| 4-Chloroaniline | | 940 | U | 37 | 940 |
| 4-Chloro-3-methylphenol | | 470 | U | 48 | 470 |
| 2-Chloronaphthalene | | 470 | U | 34 | 470 |
| 2-Chlorophenol | | 470 | U | 38 | 470 |
| 4-Chlorophenyl phenyl ether | | 470 | U | 27 | 470 |
| Chrysene | | 470 | U | 36 | 470 |
| Dibenz(a,h)anthracene | | 470 | U | 34 | 470 |
| Dibenzofuran | | 470 | U | 27 | 470 |
| 1,2-Dichlorobenzene | | 470 | U | 33 | 470 |
| 1,3-Dichlorobenzene | | 470 | U | 37 | 470 |
| 1,4-Dichlorobenzene | | 470 | U | 31 | 470 |
| 3,3'-Dichlorobenzidine | | 940 | U | 43 | 940 |
| 2,4-Dichlorophenol | | 470 | U | 33 | 470 |
| Diethyl phthalate | | 470 | U | 31 | 470 |
| 2,4-Dimethylphenol | | 470 | U | 50 | 470 |
| Dimethyl phthalate | | 470 | U | 27 | 470 |
| Di-n-butyl phthalate | | 470 | U | 40 | 470 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 470 | U | 47 | 470 |
| 2,4-Dinitrotoluene | | 470 | U | 27 | 470 |
| Di-n-octyl phthalate | | 470 | U | 44 | 470 |
| Fluoranthene | | 470 | U | 37 | 470 |
| Fluorene | | 470 | U | 31 | 470 |
| Hexachlorobenzene | | 470 | U | 37 | 470 |
| Hexachlorobutadiene | | 470 | U | 28 | 470 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW29**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-1 | | | Date Sampled: | 10/16/2006 0900 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/17/2006 0900 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57617 | | Instrument ID: | GC/MS SemiVolatiles - T |
| Preparation: | 3550B | Prep Batch: 680-57601 | | Lab File ID: | t5487.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.03 g |
| Date Analyzed: | 10/17/2006 1643 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 470 | U | 120 | 470 |
| Hexachloroethane | | 470 | U | 28 | 470 |
| Indeno[1,2,3-cd]pyrene | | 470 | U | 37 | 470 |
| Isophorone | | 470 | U | 31 | 470 |
| 2-Methylnaphthalene | | 470 | U | 34 | 470 |
| 2-Methylphenol | | 470 | U | 43 | 470 |
| 3 & 4 Methylphenol | | 470 | U | 41 | 470 |
| Naphthalene | | 470 | U | 27 | 470 |
| 3-Nitroaniline | | 2400 | U | 47 | 2400 |
| 2-Nitroaniline | | 2400 | U | 33 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 470 | U | 50 | 470 |
| 4-Nitrophenol | | 2400 | U | 300 | 2400 |
| 2-Nitrophenol | | 470 | U | 28 | 470 |
| N-Nitrosodi-n-propylamine | | 470 | U | 40 | 470 |
| N-Nitrosodiphenylamine | | 470 | U | 33 | 470 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 470 | U | 41 | 470 |
| Phenol | | 470 | U | 43 | 470 |
| Pyrene | | 470 | U | 28 | 470 |
| 1,2,4-Trichlorobenzene | | 470 | U | 30 | 470 |
| 2,4,5-Trichlorophenol | | 470 | U | 45 | 470 |
| 2,4,6-Trichlorophenol | | 470 | U | 28 | 470 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 46 | 38 - 104 |
| 2-Fluorophenol | 42 | 36 - 101 |
| Nitrobenzene-d5 | 38 | 33 - 94 |
| Phenol-d5 | 43 | 38 - 102 |
| Terphenyl-d14 | 57 | 40 - 129 |
| 2,4,6-Tribromophenol | 48 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW30**

Lab Sample ID: 680-21161-2
Client Matrix: Solid
% Moisture: 28.4
Date Sampled: 10/16/2006 0915
Date Received: 10/17/2006 0900

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/17/2006 1711
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5488.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 460 | U | 27 | 460 |
| Acenaphthylene | | 460 | U | 24 | 460 |
| Anthracene | | 460 | U | 32 | 460 |
| Benzidine | | 3800 | U | 120 | 3800 |
| Benzo[a]anthracene | | 460 | U | 43 | 460 |
| Benzo[a]pyrene | | 460 | U | 27 | 460 |
| Benzo[b]fluoranthene | | 460 | U | 36 | 460 |
| Benzo[g,h,i]perylene | | 460 | U | 32 | 460 |
| Benzoic acid | | 2400 | U | 240 | 2400 |
| Benzo[k]fluoranthene | | 460 | U | 50 | 460 |
| Benzyl alcohol | | 460 | U | 53 | 460 |
| Bis(2-chloroethoxy)methane | | 460 | U | 34 | 460 |
| Bis(2-chloroethyl)ether | | 460 | U | 39 | 460 |
| bis(chloroisopropyl) ether | | 460 | U | 49 | 460 |
| Bis(2-ethylhexyl) phthalate | | 460 | U | 53 | 460 |
| 4-Bromophenyl phenyl ether | | 460 | U | 43 | 460 |
| Butyl benzyl phthalate | | 460 | U | 38 | 460 |
| 4-Chloroaniline | | 920 | U | 36 | 920 |
| 4-Chloro-3-methylphenol | | 460 | U | 48 | 460 |
| 2-Chloronaphthalene | | 460 | U | 34 | 460 |
| 2-Chlorophenol | | 460 | U | 38 | 460 |
| 4-Chlorophenyl phenyl ether | | 460 | U | 27 | 460 |
| Chrysene | | 460 | U | 35 | 460 |
| Dibenz(a,h)anthracene | | 460 | U | 34 | 460 |
| Dibenzofuran | | 460 | U | 27 | 460 |
| 1,2-Dichlorobenzene | | 460 | U | 32 | 460 |
| 1,3-Dichlorobenzene | | 460 | U | 36 | 460 |
| 1,4-Dichlorobenzene | | 460 | U | 31 | 460 |
| 3,3'-Dichlorobenzidine | | 920 | U | 42 | 920 |
| 2,4-Dichlorophenol | | 460 | U | 32 | 460 |
| Diethyl phthalate | | 460 | U | 31 | 460 |
| 2,4-Dimethylphenol | | 460 | U | 49 | 460 |
| Dimethyl phthalate | | 460 | U | 27 | 460 |
| Di-n-butyl phthalate | | 460 | U | 39 | 460 |
| 4,6-Dinitro-o-cresol | | 2400 | U | 280 | 2400 |
| 2,4-Dinitrophenol | | 2400 | U | 240 | 2400 |
| 2,6-Dinitrotoluene | | 460 | U | 46 | 460 |
| 2,4-Dinitrotoluene | | 460 | U | 27 | 460 |
| Di-n-octyl phthalate | | 460 | U | 43 | 460 |
| Fluoranthene | | 460 | U | 36 | 460 |
| Fluorene | | 460 | U | 31 | 460 |
| Hexachlorobenzene | | 460 | U | 36 | 460 |
| Hexachlorobutadiene | | 460 | U | 28 | 460 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW30**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-2 | | | Date Sampled: | 10/16/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 28.4 | Date Received: | 10/17/2006 0900 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57617 | | Instrument ID: | GC/MS SemiVolatiles - T |
| Preparation: | 3550B | Prep Batch: 680-57601 | | Lab File ID: | t5488.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/17/2006 1711 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 460 | U | 120 | 460 |
| Hexachloroethane | | 460 | U | 28 | 460 |
| Indeno[1,2,3-cd]pyrene | | 460 | U | 36 | 460 |
| Isophorone | | 460 | U | 31 | 460 |
| 2-Methylnaphthalene | | 460 | U | 34 | 460 |
| 2-Methylphenol | | 460 | U | 42 | 460 |
| 3 & 4 Methylphenol | | 460 | U | 41 | 460 |
| Naphthalene | | 460 | U | 27 | 460 |
| 3-Nitroaniline | | 2400 | U | 46 | 2400 |
| 2-Nitroaniline | | 2400 | U | 32 | 2400 |
| 4-Nitroaniline | | 2400 | U | 24 | 2400 |
| Nitrobenzene | | 460 | U | 49 | 460 |
| 4-Nitrophenol | | 2400 | U | 290 | 2400 |
| 2-Nitrophenol | | 460 | U | 28 | 460 |
| N-Nitrosodi-n-propylamine | | 460 | U | 39 | 460 |
| N-Nitrosodiphenylamine | | 460 | U | 32 | 460 |
| Pentachlorophenol | | 2400 | U | 120 | 2400 |
| Phenanthrene | | 460 | U | 41 | 460 |
| Phenol | | 460 | U | 42 | 460 |
| Pyrene | | 460 | U | 28 | 460 |
| 1,2,4-Trichlorobenzene | | 460 | U | 29 | 460 |
| 2,4,5-Trichlorophenol | | 460 | U | 45 | 460 |
| 2,4,6-Trichlorophenol | | 460 | U | 28 | 460 |

| Surrogate | %Rec | | Acceptance Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 38 | | 38 - 104 |
| 2-Fluorophenol | 37 | | 36 - 101 |
| Nitrobenzene-d5 | 32 | X | 33 - 94 |
| Phenol-d5 | 38 | | 38 - 102 |
| Terphenyl-d14 | 45 | | 40 - 129 |
| 2,4,6-Tribromophenol | 40 | | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW31**

Lab Sample ID: 680-21161-3
Client Matrix: Solid
% Moisture: 26.6
Date Sampled: 10/16/2006 0930
Date Received: 10/17/2006 0900

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/17/2006 1739
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5489.d
Initial Weight/Volume: 30.10 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 450 | U | 26 | 450 |
| Acenaphthylene | | 450 | U | 23 | 450 |
| Anthracene | | 450 | U | 31 | 450 |
| Benzidine | | 3700 | U | 110 | 3700 |
| Benzo[a]anthracene | | 450 | U | 42 | 450 |
| Benzo[a]pyrene | | 450 | U | 26 | 450 |
| Benzo[b]fluoranthene | | 450 | U | 35 | 450 |
| Benzo[g,h,i]perylene | | 450 | U | 31 | 450 |
| Benzoic acid | | 2300 | U | 230 | 2300 |
| Benzo[k]fluoranthene | | 450 | U | 49 | 450 |
| Benzyl alcohol | | 450 | U | 52 | 450 |
| Bis(2-chloroethoxy)methane | | 450 | U | 33 | 450 |
| Bis(2-chloroethyl)ether | | 450 | U | 38 | 450 |
| bis(chloroisopropyl) ether | | 450 | U | 48 | 450 |
| Bis(2-ethylhexyl) phthalate | | 450 | U | 52 | 450 |
| 4-Bromophenyl phenyl ether | | 450 | U | 42 | 450 |
| Butyl benzyl phthalate | | 450 | U | 37 | 450 |
| 4-Chloroaniline | | 900 | U | 35 | 900 |
| 4-Chloro-3-methylphenol | | 450 | U | 46 | 450 |
| 2-Chloronaphthalene | | 450 | U | 33 | 450 |
| 2-Chlorophenol | | 450 | U | 37 | 450 |
| 4-Chlorophenyl phenyl ether | | 450 | U | 26 | 450 |
| Chrysene | | 450 | U | 34 | 450 |
| Dibenz(a,h)anthracene | | 450 | U | 33 | 450 |
| Dibenzofuran | | 450 | U | 26 | 450 |
| 1,2-Dichlorobenzene | | 450 | U | 31 | 450 |
| 1,3-Dichlorobenzene | | 450 | U | 35 | 450 |
| 1,4-Dichlorobenzene | | 450 | U | 30 | 450 |
| 3,3'-Dichlorobenzidine | | 900 | U | 41 | 900 |
| 2,4-Dichlorophenol | | 450 | U | 31 | 450 |
| Diethyl phthalate | | 450 | U | 30 | 450 |
| 2,4-Dimethylphenol | | 450 | U | 48 | 450 |
| Dimethyl phthalate | | 450 | U | 26 | 450 |
| Di-n-butyl phthalate | | 450 | U | 38 | 450 |
| 4,6-Dinitro-o-cresol | | 2300 | U | 270 | 2300 |
| 2,4-Dinitrophenol | | 2300 | U | 230 | 2300 |
| 2,6-Dinitrotoluene | | 450 | U | 45 | 450 |
| 2,4-Dinitrotoluene | | 450 | U | 26 | 450 |
| Di-n-octyl phthalate | | 450 | U | 42 | 450 |
| Fluoranthene | | 450 | U | 35 | 450 |
| Fluorene | | 450 | U | 30 | 450 |
| Hexachlorobenzene | | 450 | U | 35 | 450 |
| Hexachlorobutadiene | | 450 | U | 27 | 450 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW31**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-3 | | | Date Sampled: | 10/16/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 26.6 | Date Received: | 10/17/2006 0900 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57617 | | Instrument ID: | GC/MS SemiVolatiles - T |
| Preparation: | 3550B | Prep Batch: 680-57601 | | Lab File ID: | t5489.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.10 g |
| Date Analyzed: | 10/17/2006 1739 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 450 | U | 110 | 450 |
| Hexachloroethane | | 450 | U | 27 | 450 |
| Indeno[1,2,3-cd]pyrene | | 450 | U | 35 | 450 |
| Isophorone | | 450 | U | 30 | 450 |
| 2-Methylnaphthalene | | 450 | U | 33 | 450 |
| 2-Methylphenol | | 450 | U | 41 | 450 |
| 3 & 4 Methylphenol | | 450 | U | 39 | 450 |
| Naphthalene | | 450 | U | 26 | 450 |
| 3-Nitroaniline | | 2300 | U | 45 | 2300 |
| 2-Nitroaniline | | 2300 | U | 31 | 2300 |
| 4-Nitroaniline | | 2300 | U | 23 | 2300 |
| Nitrobenzene | | 450 | U | 48 | 450 |
| 4-Nitrophenol | | 2300 | U | 290 | 2300 |
| 2-Nitrophenol | | 450 | U | 27 | 450 |
| N-Nitrosodi-n-propylamine | | 450 | U | 38 | 450 |
| N-Nitrosodiphenylamine | | 450 | U | 31 | 450 |
| Pentachlorophenol | | 2300 | U | 110 | 2300 |
| Phenanthrene | | 450 | U | 39 | 450 |
| Phenol | | 450 | U | 41 | 450 |
| Pyrene | | 450 | U | 27 | 450 |
| 1,2,4-Trichlorobenzene | | 450 | U | 29 | 450 |
| 2,4,5-Trichlorophenol | | 450 | U | 43 | 450 |
| 2,4,6-Trichlorophenol | | 450 | U | 27 | 450 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 55 | 38 - 104 |
| 2-Fluorophenol | 50 | 36 - 101 |
| Nitrobenzene-d5 | 45 | 33 - 94 |
| Phenol-d5 | 50 | 38 - 102 |
| Terphenyl-d14 | 60 | 40 - 129 |
| 2,4,6-Tribromophenol | 58 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW29**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-1 | | | Date Sampled: | 10/16/2006 0900 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57615 | | Lab File ID: | PC18A7.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 4.3 g |
| Date Analyzed: | 10/18/2006 1212 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/17/2006 1302 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.41 | U | 0.14 | 0.41 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 88 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW30**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-2 | | | Date Sampled: | 10/16/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 28.4 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57615 | | Lab File ID: | PC18A8.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.4 g |
| Date Analyzed: | 10/18/2006 1251 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/17/2006 1302 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.32 | U | 0.11 | 0.32 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 86 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW31**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-3 | | | Date Sampled: | 10/16/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 26.6 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57615 | | Lab File ID: | PC18A11.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.5 g |
| Date Analyzed: | 10/18/2006 1447 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/17/2006 1302 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.31 | U | 0.10 | 0.31 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 87 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID:** **WPOL-SW29**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-1 | | | Date Sampled: | 10/16/2006 0900 |
| Client Matrix: | Solid | % Moisture: | 29.7 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57695 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57598 | | Lab File ID: | q0170039.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.04 g |
| Date Analyzed: | 10/17/2006 2023 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1230 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.7 | U | 2.4 | 4.7 |
| Oil Range Organics (C20-C36) | | 24 | U | 12 | 24 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 74 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW30**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-2 | | | Date Sampled: | 10/16/2006 0915 |
| Client Matrix: | Solid | % Moisture: | 28.4 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57695 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57598 | | Lab File ID: | q0170040.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.05 g |
| Date Analyzed: | 10/17/2006 2040 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1230 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.6 | U | 2.4 | 4.6 |
| Oil Range Organics (C20-C36) | | 24 | U | 12 | 24 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 76 | 15 - 154 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Client Sample ID: WPOL-SW31**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21161-3 | | | Date Sampled: | 10/16/2006 0930 |
| Client Matrix: | Solid | % Moisture: | 26.6 | Date Received: | 10/17/2006 0900 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57695 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57598 | | Lab File ID: | q0170046.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.05 g |
| Date Analyzed: | 10/17/2006 2227 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1230 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.5 | U | 2.3 | 4.5 |
| Oil Range Organics (C20-C36) | | 23 | U | 12 | 23 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 74 | 15 - 154 |

**General Chemistry**

**Client Sample ID: WPOL-SW29**

Lab Sample ID: 680-21161-1
Client Matrix: Solid

Date Sampled: 10/16/2006 0900
Date Received: 10/17/2006 0900

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 30 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |
| Percent Solids | 70 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |

**Client Sample ID: WPOL-SW30**

Lab Sample ID: 680-21161-2
Client Matrix: Solid

Date Sampled: 10/16/2006 0915
Date Received: 10/17/2006 0900

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 28 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |
| Percent Solids | 72 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |

**Client Sample ID: WPOL-SW31**

Lab Sample ID: 680-21161-3
Client Matrix: Solid

Date Sampled: 10/16/2006 0930
Date Received: 10/17/2006 0900

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 27 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |
| Percent Solids | 73 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57663 | Date Analyzed | 10/17/2006 1726 | | | | |

# DATA REPORTING QUALIFIERS

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| | X | Surrogate exceeds the control limits |
| GC VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| GC Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Prep Batch: 680-57615** | | | | | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 5035 | |
| 680-21161-2 | WPOL-SW30 | T | Solid | 5035 | |
| 680-21161-3 | WPOL-SW31 | T | Solid | 5035 | |
| **Analysis Batch:680-57680** | | | | | |
| LCS 680-57680/7 | Lab Control Spike | T | Water | 8260B | |
| MB 680-57680/8 | Method Blank | T | Water | 8260B | |
| 680-21161-4 | Trip Blank | T | Water | 8260B | |
| **Analysis Batch:680-57681** | | | | | |
| LCS 680-57681/15 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-57681/5 | Method Blank | T | Solid | 8260B | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 8260B | 680-57615 |
| 680-21161-2 | WPOL-SW30 | T | Solid | 8260B | 680-57615 |
| 680-21161-3 | WPOL-SW31 | T | Solid | 8260B | 680-57615 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 680-57601** | | | | | |
| LCS 680-57601/5-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57601/4-A | Method Blank | T | Solid | 3550B | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 3550B | |
| 680-21161-2 | WPOL-SW30 | T | Solid | 3550B | |
| 680-21161-3 | WPOL-SW31 | T | Solid | 3550B | |
| 680-21161-3MS | Matrix Spike | T | Solid | 3550B | |
| 680-21161-3MSD | Matrix Spike Duplicate | T | Solid | 3550B | |
| **Analysis Batch:680-57617** | | | | | |
| LCS 680-57601/5-A | Lab Control Spike | T | Solid | 8270C | 680-57601 |
| MB 680-57601/4-A | Method Blank | T | Solid | 8270C | 680-57601 |
| 680-21161-1 | WPOL-SW29 | T | Solid | 8270C | 680-57601 |
| 680-21161-2 | WPOL-SW30 | T | Solid | 8270C | 680-57601 |
| 680-21161-3 | WPOL-SW31 | T | Solid | 8270C | 680-57601 |
| 680-21161-3MS | Matrix Spike | T | Solid | 8270C | 680-57601 |
| 680-21161-3MSD | Matrix Spike Duplicate | T | Solid | 8270C | 680-57601 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC VOA** | | | | | |
| **Prep Batch: 680-57615** | | | | | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 5035 | |
| 680-21161-2 | WPOL-SW30 | T | Solid | 5035 | |
| 680-21161-3 | WPOL-SW31 | T | Solid | 5035 | |
| **Analysis Batch:680-57763** | | | | | |
| LCS 680-57763/4 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-57763/5 | Method Blank | T | Solid | 8015B | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 8015B | 680-57615 |
| 680-21161-2 | WPOL-SW30 | T | Solid | 8015B | 680-57615 |
| 680-21161-3 | WPOL-SW31 | T | Solid | 8015B | 680-57615 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 680-57598** | | | | | |
| LCS 680-57598/8-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57598/7-A | Method Blank | T | Solid | 3550B | |
| 680-21161-1 | WPOL-SW29 | T | Solid | 3550B | |
| 680-21161-2 | WPOL-SW30 | T | Solid | 3550B | |
| 680-21161-3 | WPOL-SW31 | T | Solid | 3550B | |
| **Analysis Batch:680-57695** | | | | | |
| LCS 680-57598/8-A | Lab Control Spike | T | Solid | 8015B | 680-57598 |
| MB 680-57598/7-A | Method Blank | T | Solid | 8015B | 680-57598 |
| 680-21161-1 | WPOL-SW29 | T | Solid | 8015B | 680-57598 |
| 680-21161-2 | WPOL-SW30 | T | Solid | 8015B | 680-57598 |
| 680-21161-3 | WPOL-SW31 | T | Solid | 8015B | 680-57598 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:680-57663** | | | | | |
| 680-21161-1 | WPOL-SW29 | T | Solid | PercentMoisture | |
| 680-21161-2 | WPOL-SW30 | T | Solid | PercentMoisture | |
| 680-21161-3 | WPOL-SW31 | T | Solid | PercentMoisture | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57681/15 | | 98 | 97 | 104 |
| MB 680-57681/5 | | 105 | 105 | 98 |
| 680-21161-1 | WPOL-SW29 | 103 | 104 | 100 |
| 680-21161-2 | WPOL-SW30 | 106 | 103 | 108 |
| 680-21161-3 | WPOL-SW31 | 104 | 104 | 99 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 68 - 121 |
| (DBFM) | Dibromofluoromethane | 66 - 127 |
| (TOL) | Toluene-d8 (Surr) | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57680/7 | | 95 | 91 | 102 |
| MB 680-57680/8 | | 95 | 89 | 100 |
| 680-21161-4 | Trip Blank | 93 | 88 | 98 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 77 - 120 |
| (DBFM) | Dibromofluoromethane | 75 - 123 |
| (TOL) | Toluene-d8 (Surr) | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## Surrogate Recovery Report

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (2FP) (%Rec) | (FBP) (%Rec) | (NBZ) (%Rec) | (PHL) (%Rec) | (TBP) (%Rec) | (TPH) (%Rec) |
|---|---|---|---|---|---|---|---|
| 680-21161-3MS | WPOL-SW31 | 47 | 53 | 44 | 48 | 64 | 53 |
| 680-21161-3MSD | WPOL-SW31 | 45 | 51 | 40 | 50 | 64 | 52 |
| LCS 680-57601/5-A | | 77 | 86 | 71 | 79 | 103 | 92 |
| MB 680-57601/4-A | | 77 | 81 | 70 | 79 | 82 | 85 |
| 680-21161-1 | WPOL-SW29 | 42 | 46 | 38 | 43 | 48 | 57 |
| 680-21161-2 | WPOL-SW30 | 37 | 38 | 32 X | 38 | 40 | 45 |
| 680-21161-3 | WPOL-SW31 | 50 | 55 | 45 | 50 | 58 | 60 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (2FP) | 2-Fluorophenol | 36 - 101 |
| (FBP) | 2-Fluorobiphenyl | 38 - 104 |
| (NBZ) | Nitrobenzene-d5 | 33 - 94 |
| (PHL) | Phenol-d5 | 38 - 102 |
| (TBP) | 2,4,6-Tribromophenol | 27 - 124 |
| (TPH) | Terphenyl-d14 | 40 - 129 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (TFT) (%Rec) |
|---|---|---|
| LCS 680-57763/4 | | 96 |
| MB 680-57763/5 | | 92 |
| 680-21161-1 | WPOL-SW29 | 88 |
| 680-21161-2 | WPOL-SW30 | 86 |
| 680-21161-3 | WPOL-SW31 | 87 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (TFT) | a,a,a-Trifluorotoluene | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (OTPH) (%Rec) |
|---|---|---|
| LCS 680-57598/8-A | | 90 |
| MB 680-57598/7-A | | 97 |
| 680-21161-1 | WPOL-SW29 | 74 |
| 680-21161-2 | WPOL-SW30 | 76 |
| 680-21161-3 | WPOL-SW31 | 74 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (OTPH) | o-Terphenyl | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57680/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1247
Date Prepared: 10/18/2006 1247

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq595.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57680/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1247
Date Prepared: 10/18/2006 1247

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq595.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 10 | U | 0.39 | 10 |
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95 | 77 - 120 |
| Dibromofluoromethane | 89 | 75 - 123 |
| Toluene-d8 (Surr) | 100 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57680/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1143
Date Prepared: 10/18/2006 1143

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq593.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 97.0 | 97 | 20 - 183 | |
| Bromobenzene | 50.0 | 48.5 | 97 | 55 - 131 | |
| Bromochloromethane | 50.0 | 49.6 | 99 | 50 - 154 | |
| Benzene | 50.0 | 50.9 | 102 | 74 - 122 | |
| Dichlorobromomethane | 50.0 | 58.6 | 117 | 74 - 128 | |
| Bromoform | 50.0 | 53.4 | 107 | 64 - 132 | |
| Methyl bromide | 50.0 | 34.2 | 68 | 21 - 176 | |
| Methyl Ethyl Ketone | 100 | 102 | 102 | 51 - 142 | |
| n-Butylbenzene | 50.0 | 53.2 | 106 | 47 - 130 | |
| Carbon disulfide | 50.0 | 41.4 | 83 | 60 - 130 | |
| sec-Butylbenzene | 50.0 | 49.3 | 99 | 53 - 125 | |
| Carbon tetrachloride | 50.0 | 60.2 | 120 | 64 - 137 | |
| tert-Butylbenzene | 50.0 | 49.4 | 99 | 51 - 134 | |
| Chlorobenzene | 50.0 | 47.4 | 95 | 75 - 123 | |
| Chloroethane | 50.0 | 32.6 | 65 | 40 - 171 | |
| Chloroform | 50.0 | 47.8 | 96 | 74 - 124 | |
| Methyl chloride | 50.0 | 42.3 | 85 | 51 - 133 | |
| Dibromochloromethane | 50.0 | 53.4 | 107 | 75 - 126 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 46.7 | 93 | 14 - 147 | |
| 1,2-Dibromoethane | 50.0 | 52.6 | 105 | 60 - 118 | |
| Methylene bromide | 50.0 | 53.7 | 107 | 70 - 130 | |
| o-Chlorotoluene | 50.0 | 49.4 | 99 | 53 - 133 | |
| p-Chlorotoluene | 50.0 | 47.9 | 96 | 47 - 132 | |
| Dichlorodifluoromethane | 50.0 | 36.4 | 73 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 45.5 | 91 | 70 - 127 | |
| 1,2-Dichloroethane | 50.0 | 59.8 | 120 | 68 - 130 | |
| 1,1-Dichlorethylene | 50.0 | 46.4 | 93 | 64 - 132 | |
| o-Dichlorobenzene | 50.0 | 48.6 | 97 | 71 - 125 | |
| trans-1-2-Dichloroethylene | 50.0 | 45.9 | 92 | 67 - 130 | |
| 1,2-Dichloropropane | 50.0 | 52.1 | 104 | 74 - 123 | |
| m-Dichlorobenzene | 50.0 | 48.0 | 96 | 70 - 125 | |
| cis-1,3-Dichloropropene | 50.0 | 53.6 | 107 | 76 - 126 | |
| p-Dichlorobenzene | 50.0 | 48.7 | 97 | 65 - 127 | |
| trans-1,3-Dichloropropene | 50.0 | 55.6 | 111 | 75 - 126 | |
| Ethylbenzene | 50.0 | 48.7 | 97 | 77 - 123 | |
| 2-Hexanone | 100 | 115 | 115 | 58 - 139 | |
| cis-1,2-Dichloroethylene | 50.0 | 43.0 | 86 | 69 - 126 | |
| Methylene Chloride | 50.0 | 43.7 | 87 | 67 - 128 | |
| 1,3-Dichloropropane | 50.0 | 52.8 | 106 | 60 - 125 | |
| 4-Methyl-2-pentanone | 100 | 116 | 116 | 62 - 130 | |
| 2,2-Dichloropropane | 50.0 | 51.0 | 102 | 42 - 155 | |
| 1,1-Dichloropropene | 50.0 | 54.4 | 109 | 70 - 130 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57680/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1143
Date Prepared: 10/18/2006 1143

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq593.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 45.9 | 92 | 75 - 125 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 51.5 | 103 | 62 - 107 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.9 | 96 | 71 - 127 | |
| Tetrachloroethylene | 50.0 | 48.2 | 96 | 70 - 133 | |
| Hexachlorobutadiene | 50.0 | 54.5 | 109 | 58 - 133 | |
| Toluene | 50.0 | 50.0 | 100 | 75 - 122 | |
| 1,1,1-Trichloroethane | 50.0 | 57.8 | 116 | 70 - 132 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 75 - 122 | |
| Trichloroethylene | 50.0 | 50.8 | 102 | 75 - 122 | |
| Isopropylbenzene | 50.0 | 50.0 | 100 | 62 - 122 | |
| Trichlorofluoromethane | 50.0 | 54.0 | 108 | 74 - 165 | |
| 1,2,3-Trichloropropane | 50.0 | 51.1 | 102 | 60 - 147 | |
| p-Isopropyltoluene | 50.0 | 50.9 | 102 | 58 - 123 | |
| Vinyl acetate | 100 | 102 | 102 | 47 - 150 | |
| Vinyl chloride | 50.0 | 40.9 | 82 | 59 - 136 | |
| Methyl tert-butyl ether | 100 | 94.4 | 94 | 70 - 130 | |
| Naphthalene | 50.0 | 43.1 | 86 | 58 - 143 | |
| N-Propylbenzene | 50.0 | 48.5 | 97 | 53 - 125 | |
| 1,2,3-Trichlorobenzene | 50.0 | 45.6 | 91 | 38 - 130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 46.6 | 93 | 48 - 131 | |
| Freon 113 | 50.0 | 44.1 | 88 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 50.3 | 101 | 53 - 142 | |
| 1,3,5-Trimethylbenzene | 50.0 | 50.4 | 101 | 50 - 127 | |
| o-Xylene | 50.0 | 47.3 | 95 | 76 - 122 | |
| m-Xylene & p-Xylene | 100 | 96.5 | 97 | 74 - 123 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95 | 77 - 120 |
| Dibromofluoromethane | 91 | 75 - 123 |
| Toluene-d8 (Surr) | 102 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57681/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1149
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq610.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 50 | U | 3.0 | 50 |
| Acetonitrile | 200 | U | 28 | 200 |
| Acrolein | 100 | U | 11 | 100 |
| Bromobenzene | 5.0 | U | 0.93 | 5.0 |
| Acrylonitrile | 100 | U | 16 | 100 |
| Bromochloromethane | 5.0 | U | 0.95 | 5.0 |
| Benzene | 5.0 | U | 0.86 | 5.0 |
| Dichlorobromomethane | 5.0 | U | 1.0 | 5.0 |
| Bromoform | 5.0 | U | 2.2 | 5.0 |
| Methyl bromide | 5.0 | U | 1.3 | 5.0 |
| Methyl Ethyl Ketone | 25 | U | 4.0 | 25 |
| n-Butylbenzene | 5.0 | U | 0.99 | 5.0 |
| Carbon disulfide | 5.0 | U | 1.0 | 5.0 |
| sec-Butylbenzene | 5.0 | U | 1.1 | 5.0 |
| Carbon tetrachloride | 5.0 | U | 0.89 | 5.0 |
| tert-Butylbenzene | 5.0 | U | 1.2 | 5.0 |
| Chlorobenzene | 5.0 | U | 0.69 | 5.0 |
| Chloroethane | 5.0 | U | 1.5 | 5.0 |
| Chloroform | 5.0 | U | 0.88 | 5.0 |
| Methyl chloride | 5.0 | U | 0.70 | 5.0 |
| Allyl chloride | 5.0 | U | 1.2 | 5.0 |
| Chlorodibromomethane | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 4.6 | 10 |
| 1,2-Dibromoethane | 5.0 | U | 1.4 | 5.0 |
| 2-Chlorotoluene | 5.0 | U | 1.4 | 5.0 |
| Methylene bromide | 5.0 | U | 1.3 | 5.0 |
| 4-Chlorotoluene | 5.0 | U | 0.78 | 5.0 |
| trans-1,4-Dichloro-2-butene | 10 | U | 4.0 | 10 |
| Dichlorodifluoromethane | 5.0 | U | 2.5 | 5.0 |
| 1,1-Dichloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,2-Dichloroethane | 5.0 | U | 1.2 | 5.0 |
| 1,1-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| o-Dichlorobenzene | 5.0 | U | 1.8 | 5.0 |
| trans-1,2-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dichloropropane | 5.0 | U | 1.3 | 5.0 |
| m-Dichlorobenzene | 5.0 | U | 1.1 | 5.0 |
| cis-1,3-Dichloropropene | 5.0 | U | 0.91 | 5.0 |
| p-Dichlorobenzene | 5.0 | U | 1.4 | 5.0 |
| trans-1,3-Dichloropropene | 5.0 | U | 1.1 | 5.0 |
| Ethylbenzene | 5.0 | U | 0.87 | 5.0 |
| Ethyl methacrylate | 5.0 | U | 0.77 | 5.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57681/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1149
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq610.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 25 | U | 5.4 | 25 |
| cis-Dichloroethylene | 5.0 | U | 0.88 | 5.0 |
| Methyl iodide | 5.0 | U | 1.0 | 5.0 |
| Methacrylonitrile | 100 | U | 16 | 100 |
| Methylene Chloride | 5.0 | U | 1.6 | 5.0 |
| Methyl methacrylate | 5.0 | U | 1.7 | 5.0 |
| 1,3-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 5.8 | 25 |
| 2,2-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| Pentachloroethane | 25 | U | 4.6 | 25 |
| 1,1-Dichloropropene | 5.0 | U | 1.4 | 5.0 |
| Propionitrile | 100 | U | 23 | 100 |
| Styrene | 5.0 | U | 0.85 | 5.0 |
| 1,1,1,2-Tetrachloroethane | 5.0 | U | 1.4 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 1.0 | 5.0 |
| Tetrachloroethylene | 5.0 | U | 1.0 | 5.0 |
| Hexachlorobutadiene | 5.0 | U | 1.6 | 5.0 |
| Toluene | 5.0 | U | 1.0 | 5.0 |
| 1,1,1-Trichloroethane | 5.0 | U | 0.85 | 5.0 |
| 1,1,2-Trichloroethane | 5.0 | U | 1.2 | 5.0 |
| Trichloroethylene | 5.0 | U | 1.2 | 5.0 |
| Isopropylbenzene | 5.0 | U | 0.99 | 5.0 |
| Trichlorofluoromethane | 5.0 | U | 1.4 | 5.0 |
| 1,2,3-Trichloropropane | 5.0 | U | 2.7 | 5.0 |
| p-Isopropyltoluene | 5.0 | U | 1.2 | 5.0 |
| Vinyl acetate | 10 | U | 1.9 | 10 |
| Vinyl chloride | 5.0 | U | 0.92 | 5.0 |
| Methyl tert-butyl ether | 50 | U | 1.8 | 50 |
| Naphthalene | 5.0 | U | 3.4 | 5.0 |
| N-Propylbenzene | 5.0 | U | 1.2 | 5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 2.2 | 5.0 |
| Freon 113 | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 1.0 | 5.0 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 1.3 | 5.0 |
| o-Xylene | 5.0 | U | 1.4 | 5.0 |
| m-Xylene & p-Xylene | 10 | U | 2.0 | 10 |
| 1-Chlorohexane | 5.0 | U | 0.78 | 5.0 |
| Hexane | 5.0 | U | 2.3 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 105 | 68 - 121 |
| Dibromofluoromethane | 105 | 66 - 127 |
| Toluene-d8 (Surr) | 98 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57681/15
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1048
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq608.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 103 | 103 | 28 - 143 | |
| Bromobenzene | 50.0 | 49.5 | 99 | 77 - 147 | |
| Bromochloromethane | 50.0 | 45.0 | 90 | 63 - 136 | |
| Benzene | 50.0 | 35.9 | 72 | 79 - 118 | * |
| Dichlorobromomethane | 50.0 | 48.7 | 97 | 74 - 128 | |
| Bromoform | 50.0 | 53.2 | 106 | 62 - 137 | |
| Methyl bromide | 50.0 | 43.7 | 87 | 26 - 160 | |
| Methyl Ethyl Ketone | 100 | 104 | 104 | 30 - 149 | |
| n-Butylbenzene | 50.0 | 51.1 | 102 | 59 - 120 | |
| Carbon disulfide | 50.0 | 37.7 | 75 | 32 - 157 | |
| sec-Butylbenzene | 50.0 | 48.6 | 97 | 60 - 128 | |
| Carbon tetrachloride | 50.0 | 49.4 | 99 | 62 - 140 | |
| tert-Butylbenzene | 50.0 | 48.6 | 97 | 62 - 140 | |
| Chlorobenzene | 50.0 | 48.7 | 97 | 81 - 120 | |
| Chloroethane | 50.0 | 44.3 | 89 | 20 - 140 | |
| Chloroform | 50.0 | 45.8 | 92 | 77 - 125 | |
| Methyl chloride | 50.0 | 47.7 | 95 | 42 - 140 | |
| Chlorodibromomethane | 50.0 | 50.9 | 102 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 54.9 | 110 | 21 - 180 | |
| 1,2-Dibromoethane | 50.0 | 51.5 | 103 | 76 - 130 | |
| 2-Chlorotoluene | 50.0 | 51.1 | 102 | 49 - 219 | |
| Methylene bromide | 50.0 | 49.1 | 98 | 71 - 134 | |
| 4-Chlorotoluene | 50.0 | 46.8 | 94 | 45 - 218 | |
| Dichlorodifluoromethane | 50.0 | 43.2 | 86 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 44.9 | 90 | 43 - 157 | |
| 1,2-Dichloroethane | 50.0 | 49.8 | 100 | 65 - 133 | |
| 1,1-Dichloroethylene | 50.0 | 39.9 | 80 | 52 - 143 | |
| o-Dichlorobenzene | 50.0 | 48.7 | 97 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 50.0 | 40.5 | 81 | 35 - 154 | |
| 1,2-Dichloropropane | 50.0 | 48.3 | 97 | 77 - 118 | |
| m-Dichlorobenzene | 50.0 | 47.7 | 95 | 84 - 120 | |
| cis-1,3-Dichloropropene | 50.0 | 49.6 | 99 | 71 - 123 | |
| p-Dichlorobenzene | 50.0 | 49.2 | 98 | 67 - 133 | |
| trans-1,3-Dichloropropene | 50.0 | 51.2 | 102 | 75 - 126 | |
| Ethylbenzene | 50.0 | 49.6 | 99 | 82 - 118 | |
| 2-Hexanone | 100 | 110 | 110 | 30 - 148 | |
| cis-Dichloroethylene | 50.0 | 44.9 | 90 | 69 - 131 | |
| Methylene Chloride | 50.0 | 45.0 | 90 | 54 - 150 | |
| 1,3-Dichloropropane | 50.0 | 49.6 | 99 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 100 | 103 | 103 | 29 - 150 | |
| 2,2-Dichloropropane | 50.0 | 43.5 | 87 | 28 - 187 | |
| 1,1-Dichloropropene | 50.0 | 59.8 | 120 | 76 - 126 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57681/15
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1048
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq608.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 48.4 | 97 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 52.6 | 105 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 49.8 | 100 | 64 - 130 | |
| Tetrachloroethylene | 50.0 | 49.5 | 99 | 79 - 132 | |
| Hexachlorobutadiene | 50.0 | 50.9 | 102 | 29 - 135 | |
| Toluene | 50.0 | 49.5 | 99 | 80 - 118 | |
| 1,1,1-Trichloroethane | 50.0 | 47.1 | 94 | 58 - 139 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 76 - 120 | |
| Trichloroethylene | 50.0 | 47.6 | 95 | 80 - 122 | |
| Isopropylbenzene | 50.0 | 49.0 | 98 | 75 - 134 | |
| Trichlorofluoromethane | 50.0 | 47.3 | 95 | 38 - 146 | |
| 1,2,3-Trichloropropane | 50.0 | 52.0 | 104 | 33 - 210 | |
| p-Isopropyltoluene | 50.0 | 50.2 | 100 | 39 - 141 | |
| Vinyl acetate | 100 | 102 | 102 | 1 - 184 | |
| Vinyl chloride | 50.0 | 46.7 | 93 | 34 - 154 | |
| Methyl tert-butyl ether | 100 | 89.0 | 89 | 37 - 168 | |
| Naphthalene | 50.0 | 48.9 | 98 | 42 - 250 | |
| N-Propylbenzene | 50.0 | 48.7 | 97 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 50.0 | 52.3 | 105 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 50.0 | 52.7 | 105 | 49 - 152 | |
| Freon 113 | 50.0 | 33.0 | 66 | 70 - 130 | * |
| 1,2,4-Trimethylbenzene | 50.0 | 49.4 | 99 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 50.0 | 48.2 | 96 | 72 - 124 | |
| o-Xylene | 50.0 | 49.2 | 98 | 74 - 122 | |
| m-Xylene & p-Xylene | 100 | 98.3 | 98 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98 | 68 - 121 |
| Dibromofluoromethane | 97 | 66 - 127 |
| Toluene-d8 (Surr) | 104 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57601/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1615
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5486.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57601/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1615
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5486.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 81 | 38 - 104 |
| 2-Fluorophenol | 77 | 36 - 101 |
| Nitrobenzene-d5 | 70 | 33 - 94 |
| Phenol-d5 | 79 | 38 - 102 |
| Terphenyl-d14 | 85 | 40 - 129 |
| 2,4,6-Tribromophenol | 82 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57601/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1807
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5490.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 2650 | 80 | 36 - 108 | |
| Acenaphthylene | 3330 | 2790 | 84 | 41 - 112 | |
| Anthracene | 3330 | 2820 | 85 | 46 - 115 | |
| Benzidine | 3330 | 1110 | 33 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 2860 | 86 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3170 | 95 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 3140 | 94 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 3010 | 90 | 41 - 122 | |
| Benzoic acid | 3330 | 1610 | 48 | 10 - 94 | J |
| Benzo[k]fluoranthene | 3330 | 2870 | 86 | 36 - 124 | |
| Benzyl alcohol | 3330 | 2340 | 70 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2460 | 74 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 1960 | 59 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 1740 | 52 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 2650 | 80 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2390 | 72 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 2750 | 83 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 2180 | 65 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 2710 | 81 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2590 | 78 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 2410 | 72 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 2750 | 83 | 42 - 111 | |
| Chrysene | 3330 | 2860 | 86 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 3050 | 91 | 41 - 124 | |
| Dibenzofuran | 3330 | 2660 | 80 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2270 | 68 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2150 | 65 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2190 | 66 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 2260 | 68 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 2710 | 81 | 43 - 108 | |
| Diethyl phthalate | 3330 | 2710 | 81 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 2770 | 83 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 2740 | 82 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2600 | 78 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 2190 | 66 | 11 - 142 | |
| 2,4-Dinitrophenol | 3330 | 1230 | 37 | 1 - 131 | J |
| 2,4-Dinitrotoluene | 3330 | 3110 | 93 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 2960 | 89 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 2700 | 81 | 43 - 129 | |
| Fluoranthene | 3330 | 2800 | 84 | 41 - 124 | |
| Fluorene | 3330 | 2800 | 84 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 2800 | 84 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Lab Control Spike - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57601/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1807
Date Prepared: 10/17/2006 1300

Analysis Batch: 680-57617
Prep Batch: 680-57601
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - T
Lab File ID: t5490.d
Initial Weight/Volume: 30.02 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 2610 | 78 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 2510 | 75 | 20 - 109 | |
| Hexachloroethane | 3330 | 1980 | 59 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2960 | 89 | 36 - 133 | |
| Isophorone | 3330 | 2330 | 70 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2480 | 75 | 39 - 104 | |
| 2-Methylphenol | 3330 | 2500 | 75 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 2450 | 73 | 37 - 106 | |
| Naphthalene | 3330 | 2440 | 73 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 2440 | 73 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 2620 | 79 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2980 | 89 | 32 - 130 | |
| Nitrobenzene | 3330 | 2150 | 65 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2480 | 75 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 2560 | 77 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 2070 | 62 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 2710 | 81 | 16 - 113 | |
| Pentachlorophenol | 3330 | 2730 | 82 | 27 - 116 | |
| Phenanthrene | 3330 | 2650 | 80 | 47 - 114 | |
| Phenol | 3330 | 2370 | 71 | 34 - 98 | |
| Pyrene | 3330 | 2780 | 84 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2430 | 73 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 2820 | 85 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 2760 | 83 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 86 | 38 - 104 |
| 2-Fluorophenol | 77 | 36 - 101 |
| Nitrobenzene-d5 | 71 | 33 - 94 |
| Phenol-d5 | 79 | 38 - 102 |
| Terphenyl-d14 | 92 | 40 - 129 |
| 2,4,6-Tribromophenol | 103 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21161-3 | Analysis Batch: | 680-57617 | Instrument ID: | GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: | 680-57601 | Lab File ID: | t5491.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.09 g |
| Date Analyzed: | 10/17/2006 1835 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21161-3 | Analysis Batch: | 680-57617 | Instrument ID: | GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: | 680-57601 | Lab File ID: | t5492.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/17/2006 1903 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Acenaphthene | 50 | 49 | 36 - 108 | 2 | 50 | | |
| Acenaphthylene | 52 | 51 | 41 - 112 | 1 | 50 | | |
| Anthracene | 52 | 53 | 46 - 115 | 2 | 50 | | |
| Benzidine | 45 | 46 | 1 - 95 | 1 | 50 | J | J |
| Benzo[a]anthracene | 53 | 53 | 46 - 116 | 1 | 50 | | |
| Benzo[a]pyrene | 59 | 60 | 37 - 120 | 2 | 50 | | |
| Benzo[b]fluoranthene | 54 | 58 | 35 - 122 | 7 | 50 | | |
| Benzo[g,h,i]perylene | 57 | 57 | 41 - 122 | 0 | 50 | | |
| Benzoic acid | 33 | 25 | 10 - 94 | 25 | 50 | J | J |
| Benzo[k]fluoranthene | 58 | 56 | 36 - 124 | 5 | 50 | | |
| Benzyl alcohol | 41 | 44 | 30 - 98 | 6 | 50 | | |
| Bis(2-chloroethoxy)methane | 45 | 45 | 38 - 106 | 1 | 50 | | |
| Bis(2-chloroethyl)ether | 36 | 35 | 30 - 98 | 3 | 50 | | |
| bis(chloroisopropyl) ether | 32 | 31 | 16 - 116 | 1 | 50 | | |
| Bis(2-ethylhexyl) phthalate | 48 | 48 | 25 - 134 | 0 | 50 | | |
| 4-Bromophenyl phenyl ether | 43 | 44 | 38 - 106 | 1 | 50 | | |
| Butyl benzyl phthalate | 48 | 49 | 43 - 127 | 1 | 50 | | |
| 4-Chloroaniline | 49 | 49 | 7 - 103 | 2 | 50 | | |
| 4-Chloro-3-methylphenol | 49 | 52 | 39 - 113 | 6 | 50 | | |
| 2-Chloronaphthalene | 48 | 47 | 41 - 110 | 2 | 50 | | |
| 2-Chlorophenol | 43 | 43 | 36 - 99 | 0 | 50 | | |
| 4-Chlorophenyl phenyl ether | 52 | 52 | 42 - 111 | 0 | 50 | | |
| Chrysene | 53 | 53 | 46 - 118 | 0 | 50 | | |
| Dibenz(a,h)anthracene | 57 | 58 | 41 - 124 | 1 | 50 | | |
| Dibenzofuran | 50 | 50 | 44 - 108 | 1 | 50 | | |
| 1,2-Dichlorobenzene | 41 | 40 | 35 - 93 | 4 | 50 | | |
| 1,3-Dichlorobenzene | 39 | 37 | 34 - 90 | 6 | 50 | | |
| 1,4-Dichlorobenzene | 40 | 38 | 32 - 90 | 4 | 50 | | |
| 3,3'-Dichlorobenzidine | 53 | 53 | 1 - 118 | 0 | 50 | | |
| 2,4-Dichlorophenol | 49 | 51 | 43 - 108 | 4 | 50 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 680-21161-3 | Analysis Batch: 680-57617 | Instrument ID: GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: 680-57601 | Lab File ID: t5491.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.09 g |
| Date Analyzed: | 10/17/2006 1835 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | Injection Volume: |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 680-21161-3 | Analysis Batch: 680-57617 | Instrument ID: GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: 680-57601 | Lab File ID: t5492.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.00 g |
| Date Analyzed: | 10/17/2006 1903 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | Injection Volume: |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diethyl phthalate | 50 | 52 | 41 - 118 | 4 | 50 | | |
| 2,4-Dimethylphenol | 48 | 50 | 40 - 112 | 3 | 50 | | |
| Dimethyl phthalate | 51 | 52 | 43 - 114 | 3 | 50 | | |
| Di-n-butyl phthalate | 48 | 50 | 35 - 93 | 3 | 50 | | |
| 4,6-Dinitro-o-cresol | 38 | 36 | 11 - 142 | 6 | 50 | J | J |
| 2,4-Dinitrophenol | 20 | 20 | 1 - 131 | 2 | 50 | J | J |
| 2,4-Dinitrotoluene | 57 | 57 | 32 - 128 | 1 | 50 | | |
| 2,6-Dinitrotoluene | 55 | 56 | 38 - 128 | 3 | 50 | | |
| Di-n-octyl phthalate | 50 | 50 | 43 - 129 | 0 | 50 | | |
| Fluoranthene | 54 | 55 | 41 - 124 | 2 | 50 | | |
| Fluorene | 54 | 52 | 37 - 113 | 2 | 50 | | |
| Hexachlorobenzene | 52 | 52 | 46 - 115 | 1 | 50 | | |
| Hexachlorobutadiene | 51 | 44 | 42 - 105 | 12 | 50 | | |
| Hexachlorocyclopentadiene | 46 | 42 | 20 - 109 | 9 | 50 | | |
| Hexachloroethane | 36 | 35 | 31 - 88 | 5 | 50 | | |
| Indeno[1,2,3-cd]pyrene | 56 | 56 | 36 - 133 | 0 | 50 | | |
| Isophorone | 43 | 42 | 37 - 106 | 0 | 50 | | |
| 2-Methylnaphthalene | 46 | 45 | 39 - 104 | 2 | 50 | | |
| 2-Methylphenol | 44 | 47 | 38 - 107 | 6 | 50 | | |
| 3 & 4 Methylphenol | 43 | 47 | 37 - 106 | 8 | 50 | | |
| Naphthalene | 46 | 43 | 34 - 97 | 6 | 50 | | |
| 2-Nitroaniline | 45 | 45 | 38 - 124 | 0 | 50 | J | J |
| 3-Nitroaniline | 53 | 55 | 19 - 118 | 3 | 50 | | |
| 4-Nitroaniline | 56 | 58 | 32 - 130 | 3 | 50 | | |
| Nitrobenzene | 40 | 38 | 33 - 106 | 6 | 50 | | |
| 2-Nitrophenol | 45 | 44 | 38 - 104 | 3 | 50 | | |
| 4-Nitrophenol | 47 | 47 | 21 - 132 | 1 | 50 | J | J |
| N-Nitrosodi-n-propylamine | 37 | 39 | 24 - 108 | 6 | 50 | | |
| N-Nitrosodiphenylamine | 50 | 51 | 16 - 113 | 3 | 50 | | |
| Pentachlorophenol | 49 | 49 | 27 - 116 | 2 | 50 | J | J |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21161-3 | Analysis Batch: | 680-57617 | Instrument ID: | GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: | 680-57601 | Lab File ID: | t5491.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.09 g |
| Date Analyzed: | 10/17/2006 1835 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21161-3 | Analysis Batch: | 680-57617 | Instrument ID: | GC/MS SemiVolatiles - T |
| Client Matrix: | Solid | Prep Batch: | 680-57601 | Lab File ID: | t5492.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/17/2006 1903 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/17/2006 1300 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Phenanthrene | 49 | 50 | 47 - 114 | 1 | 50 | | |
| Phenol | 42 | 44 | 34 - 98 | 5 | 50 | | |
| Pyrene | 48 | 47 | 36 - 128 | 1 | 50 | | |
| 1,2,4-Trichlorobenzene | 46 | 42 | 36 - 98 | 9 | 50 | | |
| 2,4,5-Trichlorophenol | 52 | 53 | 46 - 116 | 3 | 50 | | |
| 2,4,6-Trichlorophenol | 50 | 51 | 44 - 113 | 2 | 50 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 53 | 51 | 38 - 104 |
| 2-Fluorophenol | 47 | 45 | 36 - 101 |
| Nitrobenzene-d5 | 44 | 40 | 33 - 94 |
| Phenol-d5 | 48 | 50 | 38 - 102 |
| Terphenyl-d14 | 53 | 52 | 40 - 129 |
| 2,4,6-Tribromophenol | 64 | 64 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21161-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1835
Date Prepared: 10/17/2006 1300

Units: ug/Kg

MSD Lab Sample ID: 680-21161-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1903
Date Prepared: 10/17/2006 1300

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0 | U | 4530 | 4540 | 2250 | | 2210 | |
| Acenaphthylene | 0.0 | U | 4530 | 4540 | 2330 | | 2300 | |
| Anthracene | 0.0 | U | 4530 | 4540 | 2370 | | 2410 | |
| Benzidine | 0.0 | U | 4530 | 4540 | 2060 | J | 2080 | J |
| Benzo[a]anthracene | 0.0 | U | 4530 | 4540 | 2420 | | 2400 | |
| Benzo[a]pyrene | 0.0 | U | 4530 | 4540 | 2670 | | 2720 | |
| Benzo[b]fluoranthene | 0.0 | U | 4530 | 4540 | 2460 | | 2650 | |
| Benzo[g,h,i]perylene | 0.0 | U | 4530 | 4540 | 2580 | | 2570 | |
| Benzoic acid | 0.0 | U | 4530 | 4540 | 1480 | J | 1160 | J |
| Benzo[k]fluoranthene | 0.0 | U | 4530 | 4540 | 2640 | | 2530 | |
| Benzyl alcohol | 0.0 | U | 4530 | 4540 | 1860 | | 1980 | |
| Bis(2-chloroethoxy)methane | 0.0 | U | 4530 | 4540 | 2050 | | 2040 | |
| Bis(2-chloroethyl)ether | 0.0 | U | 4530 | 4540 | 1650 | | 1600 | |
| bis(chloroisopropyl) ether | 0.0 | U | 4530 | 4540 | 1450 | | 1430 | |
| Bis(2-ethylhexyl) phthalate | 0.0 | U | 4530 | 4540 | 2150 | | 2160 | |
| 4-Bromophenyl phenyl ether | 0.0 | U | 4530 | 4540 | 1970 | | 1980 | |
| Butyl benzyl phthalate | 0.0 | U | 4530 | 4540 | 2190 | | 2210 | |
| 4-Chloroaniline | 0.0 | U | 4530 | 4540 | 2200 | | 2240 | |
| 4-Chloro-3-methylphenol | 0.0 | U | 4530 | 4540 | 2230 | | 2370 | |
| 2-Chloronaphthalene | 0.0 | U | 4530 | 4540 | 2180 | | 2130 | |
| 2-Chlorophenol | 0.0 | U | 4530 | 4540 | 1960 | | 1970 | |
| 4-Chlorophenyl phenyl ether | 0.0 | U | 4530 | 4540 | 2370 | | 2380 | |
| Chrysene | 0.0 | U | 4530 | 4540 | 2420 | | 2420 | |
| Dibenz(a,h)anthracene | 0.0 | U | 4530 | 4540 | 2590 | | 2610 | |
| Dibenzofuran | 0.0 | U | 4530 | 4540 | 2270 | | 2260 | |
| 1,2-Dichlorobenzene | 0.0 | U | 4530 | 4540 | 1870 | | 1790 | |
| 1,3-Dichlorobenzene | 0.0 | U | 4530 | 4540 | 1770 | | 1670 | |
| 1,4-Dichlorobenzene | 0.0 | U | 4530 | 4540 | 1810 | | 1730 | |
| 3,3'-Dichlorobenzidine | 0.0 | U | 4530 | 4540 | 2420 | | 2420 | |
| 2,4-Dichlorophenol | 0.0 | U | 4530 | 4540 | 2240 | | 2320 | |
| Diethyl phthalate | 0.0 | U | 4530 | 4540 | 2280 | | 2360 | |
| 2,4-Dimethylphenol | 0.0 | U | 4530 | 4540 | 2190 | | 2260 | |
| Dimethyl phthalate | 0.0 | U | 4530 | 4540 | 2310 | | 2380 | |
| Di-n-butyl phthalate | 0.0 | U | 4530 | 4540 | 2190 | | 2260 | |
| 4,6-Dinitro-o-cresol | 0.0 | U | 4530 | 4540 | 1720 | J | 1620 | J |
| 2,4-Dinitrophenol | 0.0 | U | 4530 | 4540 | 921 | J | 903 | J |
| 2,4-Dinitrotoluene | 0.0 | U | 4530 | 4540 | 2580 | | 2600 | |
| 2,6-Dinitrotoluene | 0.0 | U | 4530 | 4540 | 2480 | | 2550 | |
| Di-n-octyl phthalate | 0.0 | U | 4530 | 4540 | 2260 | | 2250 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57601**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21161-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1835
Date Prepared: 10/17/2006 1300

Units: ug/Kg

MSD Lab Sample ID: 680-21161-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1903
Date Prepared: 10/17/2006 1300

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Fluoranthene | 0.0 | U | 4530 | 4540 | 2460 | | 2520 | |
| Fluorene | 0.0 | U | 4530 | 4540 | 2420 | | 2380 | |
| Hexachlorobenzene | 0.0 | U | 4530 | 4540 | 2330 | | 2360 | |
| Hexachlorobutadiene | 0.0 | U | 4530 | 4540 | 2290 | | 2020 | |
| Hexachlorocyclopentadiene | 0.0 | U | 4530 | 4540 | 2070 | | 1900 | |
| Hexachloroethane | 0.0 | U | 4530 | 4540 | 1640 | | 1570 | |
| Indeno[1,2,3-cd]pyrene | 0.0 | U | 4530 | 4540 | 2550 | | 2560 | |
| Isophorone | 0.0 | U | 4530 | 4540 | 1940 | | 1930 | |
| 2-Methylnaphthalene | 0.0 | U | 4530 | 4540 | 2090 | | 2040 | |
| 2-Methylphenol | 0.0 | U | 4530 | 4540 | 1990 | | 2120 | |
| 3 & 4 Methylphenol | 0.0 | U | 4530 | 4540 | 1960 | | 2110 | |
| Naphthalene | 0.0 | U | 4530 | 4540 | 2060 | | 1950 | |
| 2-Nitroaniline | 0.0 | U | 4530 | 4540 | 2040 | J | 2050 | J |
| 3-Nitroaniline | 0.0 | U | 4530 | 4540 | 2410 | | 2480 | |
| 4-Nitroaniline | 0.0 | U | 4530 | 4540 | 2540 | | 2620 | |
| Nitrobenzene | 0.0 | U | 4530 | 4540 | 1830 | | 1720 | |
| 2-Nitrophenol | 0.0 | U | 4530 | 4540 | 2040 | | 1990 | |
| 4-Nitrophenol | 0.0 | U | 4530 | 4540 | 2120 | J | 2140 | J |
| N-Nitrosodi-n-propylamine | 0.0 | U | 4530 | 4540 | 1680 | | 1780 | |
| N-Nitrosodiphenylamine | 0.0 | U | 4530 | 4540 | 2250 | | 2330 | |
| Pentachlorophenol | 0.0 | U | 4530 | 4540 | 2200 | J | 2240 | J |
| Phenanthrene | 0.0 | U | 4530 | 4540 | 2240 | | 2270 | |
| Phenol | 0.0 | U | 4530 | 4540 | 1900 | | 2000 | |
| Pyrene | 0.0 | U | 4530 | 4540 | 2160 | | 2130 | |
| 1,2,4-Trichlorobenzene | 0.0 | U | 4530 | 4540 | 2090 | | 1900 | |
| 2,4,5-Trichlorophenol | 0.0 | U | 4530 | 4540 | 2340 | | 2410 | |
| 2,4,6-Trichlorophenol | 0.0 | U | 4530 | 4540 | 2280 | | 2320 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57763**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-57763/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1016
Date Prepared: N/A

Analysis Batch: 680-57763
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC18A4.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 0.25 | U | 0.082 | 0.25 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 92 | 61 - 139 |

**Lab Control Spike - Batch: 680-57763**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57763/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 0938
Date Prepared: N/A

Analysis Batch: 680-57763
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC18A3.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1.00 | 0.972 | 97 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 96 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Method Blank - Batch: 680-57598**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: MB 680-57598/7-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1929
Date Prepared: 10/17/2006 1230

Analysis Batch: 680-57695
Prep Batch: 680-57598
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0170036.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.3 | U | 1.7 | 3.3 |
| Oil Range Organics (C20-C36) | 17 | U | 8.5 | 17 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 97 | 15 - 154 |

**Lab Control Spike - Batch: 680-57598**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57598/8-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/17/2006 1947
Date Prepared: 10/17/2006 1230

Analysis Batch: 680-57695
Prep Batch: 680-57598
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0170037.d
Initial Weight/Volume: 30.06 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 33.2 | 100 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 90 | 15 - 154 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

BHATE

*Environmental Engineers and Scientists*

# Chain of Custody and Analytical Request

Page 1 of 1

Project Number: 9040238.11.01

P.0. NA

LIMS Number: NA

Facility/Base I.D.: HOLMN

Project Name / Site Name: West POL

Client Name: USACE

Collected by: T Lucero

| Field Sample ID (30 Characters Max) | ERPIMS LOCID (15 Characters Max) | Date Collected (dd-mmm-yyyy) | Time Collected (Military) (hhmm) | Sample Depth (beginning - ending) | | SA Code (2) | Sample Number (3) | Sample Matrix (4) | Number of containers | VOCs 8260B+Hexane | SVOCs 8270 | 8015B Carbon Chain | | | | | | MATRIX DESCRIPTION | Cooler ID |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Sample Analysis Requested (5) | | | | | | | | | Quality Assurance Samples (6) | |
| WPOL-SW29 | W-POL | 16-Oct-06 | 0900 | 3' | 4' | N | 1 | SO | 8 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| WPOL-SW30 | W-POL | 16-Oct-06 | 0915 | 3' | 4' | N | 1 | SO | 8 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| WPOL-SW31 | W-POL | 16-Oct-06 | 0930 | 3' | 4' | N | 1 | SO | 8 | [1] | [1] | [1] | | | | | | Confirmation Sidewall Samples | 1 |
| Trip Blank | | | 0900 | | | TB | | | 1 | [1] | | | | | | | | Trip Blank | 1 |

STL
5102 La Roche Ave
Savanna GA 31404

**Email results to: rrenvironmental@zianet.com, mdauben@bhate.com, keving@zianet.com**

**Custody Transfers Prior to Receipt by Laboratory**

| Relinquished By (Signed) | Date | Time | Received by (signed) | Date | Time |
|---|---|---|---|---|---|
| 1. [signature] | 10/16/2006 | @ 1600 | 1. [signature] | 10/16/06 | 0122 |
| 2. | | | 2. | | |
| 3. | | | 3. | | |

**Sample Delivery Details / Laboratory Receipt**

| | | | |
|---|---|---|---|
| Delivered Directly to Lab: | | Shipped No.: | |
| Method of Shipment: | Fed Ex | Airbill Number: | |
| Analytical Lab: | STL | Delivery Location: | Savanna GA |
| Lab Recipient: | | Delivery Date/Time: | |

1.) Chain of Custody Number = date collected + custody number (e.g. 09-02-1999-01)

2.) Sample Type (SA) Codes: N = Normal Sample, TB = Trip Blank (-c) Sample, FD = Field Duplicate (-a) Samples, FR = Field Replicate (-b) Samples, EB = Equipment Blank (-d) Samples, MS = Matrix Spike, SD = Matrix Spike Duplicate, AB = Ambient Blank (-e)

3.) Sample Number: Unique sample number collected from a particular location per day. (e.g. Groundwater sample collected from MW-1 on 10/10/99 = 01, if sampled again on 10/10/99 = 02, etc.)

4.) Matrix Codes: GS = Soil Gas, WG = Groundwater, WS = Surface Water, SO = Soil, SE = Sediment, SL = Sludge, SS = Surface Soil Samples, WQ = Aqueous Blank Samples (trip, equipment, ambient, etc), SQ = Soil Blanks

5.) Sample Analysis Requested: Analytical method requested and number of containers provided for each.

6.) Quality assurance samples are assigned by date (ddmmyy) and the sample number associated with the sample (01, 02, etc) (e.g. Equipment blank collected in association with MW-1 on 10/10/99 will be designated 10109901 in the Equipment Blank Lot Control

TEMP.: 3.0

680-21161

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bhate Engineering

Job Number: 680-21161-1
Sdg Number: HOLL012

**Login Number: 21161**

| Question | T/F/NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | NA | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | NA | |
| Samples do not require splitting or compositing. | NA | |

# ANALYTICAL REPORT

Job Number: 680-21196-1

SDG Number: HOLL013

Job Description: HOLLOMAN AFB

For:
Bhate Engineering
1608 13th Avenue South
Suite 300
Birmingham, AL 35205

Attention: Judy Solomon

Linda Wolfe
Project Manager I
lwolfe@stl-inc.com
10/20/2006

Project Manager: Linda Wolfe

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the STL Project Manager who signed this report.

# EXECUTIVE SUMMARY - Detections

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Lab Sample ID / Analyte | Client Sample ID | Result / Qualifier | | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **680-21196-1** | **WPOL-SW23A** | | | | | |
| Diesel Range Organics [C10-C28] | | 20 | | 4.3 | mg/Kg | 8015B |
| Percent Moisture | | 24 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 76 | | 1.0 | % | PercentMoisture |
| **680-21196-2** | **WPOL-SW23B** | | | | | |
| Diesel Range Organics [C10-C28] | | 3.7 | J | 4.3 | mg/Kg | 8015B |
| Percent Moisture | | 23 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 77 | | 1.0 | % | PercentMoisture |
| **680-21196-3** | **WPOL-SW23C** | | | | | |
| Percent Moisture | | 24 | | 1.0 | % | PercentMoisture |
| Percent Solids | | 76 | | 1.0 | % | PercentMoisture |

# METHOD SUMMARY

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Solid** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) | STL SAV | SW846 8270C | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics) | STL SAV | SW846 8015B | |
| Closed System Purge & Trap/Field Preservation | STL SAV | | SW846 5035 |
| Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics) | STL SAV | SW846 8015B | |
| Ultrasonic Extraction | STL SAV | | SW846 3550B |
| Percent Moisture | STL SAV | EPA PercentMoisture | |
| **Matrix: Water** | | | |
| Volatile Organic Compounds by GC/MS | STL SAV | SW846 8260B | |
| Purge-and-Trap | STL SAV | | SW846 5030B |

## LAB REFERENCES:

STL SAV = STL Savannah

## METHOD REFERENCES:

EPA - US Environmental Protection Agency

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

# SAMPLE SUMMARY

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 680-21196-1 | WPOL-SW23A | Solid | 10/17/2006 1100 | 10/18/2006 0905 |
| 680-21196-2 | WPOL-SW23B | Solid | 10/17/2006 1115 | 10/18/2006 0905 |
| 680-21196-3 | WPOL-SW23C | Solid | 10/17/2006 1130 | 10/18/2006 0905 |
| 680-21196-4TB | Trip Blank | Water | 10/17/2006 1100 | 10/18/2006 0905 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

Lab Sample ID: 680-21196-1
Client Matrix: Solid
% Moisture: 23.6
Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1452
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1119.d
Initial Weight/Volume: 5.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 56 | U | 3.4 | 56 |
| Acetonitrile | | 230 | U | 32 | 230 |
| Acrolein | | 110 | U | 12 | 110 |
| Bromobenzene | | 5.6 | U | 1.0 | 5.6 |
| Bromochloromethane | | 5.6 | U | 1.1 | 5.6 |
| Acrylonitrile | | 110 | U | 18 | 110 |
| Benzene | | 5.6 | U * | 0.97 | 5.6 |
| Dichlorobromomethane | | 5.6 | U | 1.1 | 5.6 |
| Bromoform | | 5.6 | U | 2.5 | 5.6 |
| Methyl bromide | | 5.6 | U | 1.5 | 5.6 |
| n-Butylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Methyl Ethyl Ketone | | 28 | U | 4.5 | 28 |
| Carbon disulfide | | 5.6 | U | 1.1 | 5.6 |
| sec-Butylbenzene | | 5.6 | U | 1.2 | 5.6 |
| Carbon tetrachloride | | 5.6 | U | 1.0 | 5.6 |
| tert-Butylbenzene | | 5.6 | U | 1.4 | 5.6 |
| Chlorobenzene | | 5.6 | U | 0.78 | 5.6 |
| Chloroethane | | 5.6 | U | 1.7 | 5.6 |
| Chloroform | | 5.6 | U | 0.99 | 5.6 |
| Methyl chloride | | 5.6 | U | 0.79 | 5.6 |
| Allyl chloride | | 5.6 | U | 1.4 | 5.6 |
| Chlorodibromomethane | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dibromo-3-Chloropropane | | 11 | U | 5.2 | 11 |
| 1,2-Dibromoethane | | 5.6 | U | 1.6 | 5.6 |
| 2-Chlorotoluene | | 5.6 | U | 1.6 | 5.6 |
| Methylene bromide | | 5.6 | U | 1.5 | 5.6 |
| trans-1,4-Dichloro-2-butene | | 11 | U | 4.5 | 11 |
| 4-Chlorotoluene | | 5.6 | U | 0.88 | 5.6 |
| Dichlorodifluoromethane | | 5.6 | U | 2.8 | 5.6 |
| 1,1-Dichloroethane | | 5.6 | U | 1.1 | 5.6 |
| 1,2-Dichloroethane | | 5.6 | U | 1.4 | 5.6 |
| 1,1-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| o-Dichlorobenzene | | 5.6 | U | 2.0 | 5.6 |
| trans-1,2-Dichloroethylene | | 5.6 | U | 1.2 | 5.6 |
| m-Dichlorobenzene | | 5.6 | U | 1.2 | 5.6 |
| 1,2-Dichloropropane | | 5.6 | U | 1.5 | 5.6 |
| cis-1,3-Dichloropropene | | 5.6 | U | 1.0 | 5.6 |
| p-Dichlorobenzene | | 5.6 | U | 1.6 | 5.6 |
| trans-1,3-Dichloropropene | | 5.6 | U | 1.2 | 5.6 |
| Ethylbenzene | | 5.6 | U | 0.98 | 5.6 |
| Ethyl methacrylate | | 5.6 | U | 0.87 | 5.6 |
| 2-Hexanone | | 28 | U | 6.1 | 28 |
| Methyl iodide | | 5.6 | U | 1.1 | 5.6 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

Lab Sample ID: 680-21196-1
Client Matrix: Solid
% Moisture: 23.6
Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1452
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1119.d
Initial Weight/Volume: 5.8 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.6 | U | 0.99 | 5.6 |
| Methacrylonitrile | | 110 | U | 18 | 110 |
| Methylene Chloride | | 5.6 | U | 1.8 | 5.6 |
| Methyl methacrylate | | 5.6 | U | 1.9 | 5.6 |
| 1,3-Dichloropropane | | 5.6 | U | 1.4 | 5.6 |
| 4-Methyl-2-pentanone (MIBK) | | 28 | U | 6.5 | 28 |
| Pentachloroethane | | 28 | U | 5.2 | 28 |
| 2,2-Dichloropropane | | 5.6 | U | 1.4 | 5.6 |
| Propionitrile | | 110 | U | 26 | 110 |
| 1,1-Dichloropropene | | 5.6 | U | 1.6 | 5.6 |
| Styrene | | 5.6 | U | 0.96 | 5.6 |
| 1,1,1,2-Tetrachloroethane | | 5.6 | U | 1.6 | 5.6 |
| 1,1,2,2-Tetrachloroethane | | 5.6 | U | 1.1 | 5.6 |
| Tetrachloroethylene | | 5.6 | U | 1.1 | 5.6 |
| Toluene | | 5.6 | U | 1.1 | 5.6 |
| Hexachlorobutadiene | | 5.6 | U | 1.8 | 5.6 |
| 1,1,1-Trichloroethane | | 5.6 | U | 0.96 | 5.6 |
| 1,1,2-Trichloroethane | | 5.6 | U | 1.4 | 5.6 |
| Trichloroethylene | | 5.6 | U | 1.4 | 5.6 |
| Isopropylbenzene | | 5.6 | U | 1.1 | 5.6 |
| Trichlorofluoromethane | | 5.6 | U | 1.6 | 5.6 |
| 1,2,3-Trichloropropane | | 5.6 | U | 3.0 | 5.6 |
| p-Isopropyltoluene | | 5.6 | U | 1.4 | 5.6 |
| Vinyl acetate | | 11 | U | 2.1 | 11 |
| Vinyl chloride | | 5.6 | U | 1.0 | 5.6 |
| Methyl tert-butyl ether | | 56 | U | 2.0 | 56 |
| Naphthalene | | 5.6 | U | 3.8 | 5.6 |
| N-Propylbenzene | | 5.6 | U | 1.4 | 5.6 |
| 1,2,3-Trichlorobenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,2,4-Trichlorobenzene | | 5.6 | U | 2.5 | 5.6 |
| Freon 113 | | 5.6 | U * | 1.1 | 5.6 |
| 1,2,4-Trimethylbenzene | | 5.6 | U | 1.1 | 5.6 |
| 1,3,5-Trimethylbenzene | | 5.6 | U | 1.5 | 5.6 |
| o-Xylene | | 5.6 | U | 1.6 | 5.6 |
| m-Xylene & p-Xylene | | 11 | U | 2.3 | 11 |
| 1-Chlorohexane | | 5.6 | U | 0.88 | 5.6 |
| Hexane | | 5.6 | U | 2.6 | 5.6 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 106 | 68 - 121 |
| Dibromofluoromethane | 108 | 66 - 127 |
| Toluene-d8 (Surr) | 105 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid
% Moisture: 23.0
Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1512
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1120.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 61 | U | 3.7 | 61 |
| Acetonitrile | | 250 | U | 34 | 250 |
| Acrolein | | 120 | U | 13 | 120 |
| Bromobenzene | | 6.1 | U | 1.1 | 6.1 |
| Bromochloromethane | | 6.1 | U | 1.2 | 6.1 |
| Acrylonitrile | | 120 | U | 19 | 120 |
| Benzene | | 6.1 | U * | 1.1 | 6.1 |
| Dichlorobromomethane | | 6.1 | U | 1.2 | 6.1 |
| Bromoform | | 6.1 | U | 2.7 | 6.1 |
| Methyl bromide | | 6.1 | U | 1.6 | 6.1 |
| n-Butylbenzene | | 6.1 | U | 1.2 | 6.1 |
| Methyl Ethyl Ketone | | 31 | U | 4.9 | 31 |
| Carbon disulfide | | 6.1 | U | 1.2 | 6.1 |
| sec-Butylbenzene | | 6.1 | U | 1.3 | 6.1 |
| Carbon tetrachloride | | 6.1 | U | 1.1 | 6.1 |
| tert-Butylbenzene | | 6.1 | U | 1.5 | 6.1 |
| Chlorobenzene | | 6.1 | U | 0.85 | 6.1 |
| Chloroethane | | 6.1 | U | 1.8 | 6.1 |
| Chloroform | | 6.1 | U | 1.1 | 6.1 |
| Methyl chloride | | 6.1 | U | 0.86 | 6.1 |
| Allyl chloride | | 6.1 | U | 1.5 | 6.1 |
| Chlorodibromomethane | | 6.1 | U | 1.3 | 6.1 |
| 1,2-Dibromo-3-Chloropropane | | 12 | U | 5.6 | 12 |
| 1,2-Dibromoethane | | 6.1 | U | 1.7 | 6.1 |
| 2-Chlorotoluene | | 6.1 | U | 1.7 | 6.1 |
| Methylene bromide | | 6.1 | U | 1.6 | 6.1 |
| trans-1,4-Dichloro-2-butene | | 12 | U | 4.9 | 12 |
| 4-Chlorotoluene | | 6.1 | U | 0.96 | 6.1 |
| Dichlorodifluoromethane | | 6.1 | U | 3.1 | 6.1 |
| 1,1-Dichloroethane | | 6.1 | U | 1.2 | 6.1 |
| 1,2-Dichloroethane | | 6.1 | U | 1.5 | 6.1 |
| 1,1-Dichloroethylene | | 6.1 | U | 1.3 | 6.1 |
| o-Dichlorobenzene | | 6.1 | U | 2.2 | 6.1 |
| trans-1,2-Dichloroethylene | | 6.1 | U | 1.3 | 6.1 |
| m-Dichlorobenzene | | 6.1 | U | 1.3 | 6.1 |
| 1,2-Dichloropropane | | 6.1 | U | 1.6 | 6.1 |
| cis-1,3-Dichloropropene | | 6.1 | U | 1.1 | 6.1 |
| p-Dichlorobenzene | | 6.1 | U | 1.7 | 6.1 |
| trans-1,3-Dichloropropene | | 6.1 | U | 1.3 | 6.1 |
| Ethylbenzene | | 6.1 | U | 1.1 | 6.1 |
| Ethyl methacrylate | | 6.1 | U | 0.94 | 6.1 |
| 2-Hexanone | | 31 | U | 6.6 | 31 |
| Methyl iodide | | 6.1 | U | 1.2 | 6.1 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid
% Moisture: 23.0
Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1512
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1120.d
Initial Weight/Volume: 5.3 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 6.1 | U | 1.1 | 6.1 |
| Methacrylonitrile | | 120 | U | 20 | 120 |
| Methylene Chloride | | 6.1 | U | 2.0 | 6.1 |
| Methyl methacrylate | | 6.1 | U | 2.0 | 6.1 |
| 1,3-Dichloropropane | | 6.1 | U | 1.5 | 6.1 |
| 4-Methyl-2-pentanone (MIBK) | | 31 | U | 7.1 | 31 |
| Pentachloroethane | | 31 | U | 5.6 | 31 |
| 2,2-Dichloropropane | | 6.1 | U | 1.5 | 6.1 |
| Propionitrile | | 120 | U | 28 | 120 |
| 1,1-Dichloropropene | | 6.1 | U | 1.7 | 6.1 |
| Styrene | | 6.1 | U | 1.0 | 6.1 |
| 1,1,1,2-Tetrachloroethane | | 6.1 | U | 1.7 | 6.1 |
| 1,1,2,2-Tetrachloroethane | | 6.1 | U | 1.2 | 6.1 |
| Tetrachloroethylene | | 6.1 | U | 1.2 | 6.1 |
| Toluene | | 6.1 | U | 1.2 | 6.1 |
| Hexachlorobutadiene | | 6.1 | U | 2.0 | 6.1 |
| 1,1,1-Trichloroethane | | 6.1 | U | 1.0 | 6.1 |
| 1,1,2-Trichloroethane | | 6.1 | U | 1.5 | 6.1 |
| Trichloroethylene | | 6.1 | U | 1.5 | 6.1 |
| Isopropylbenzene | | 6.1 | U | 1.2 | 6.1 |
| Trichlorofluoromethane | | 6.1 | U | 1.7 | 6.1 |
| 1,2,3-Trichloropropane | | 6.1 | U | 3.3 | 6.1 |
| p-Isopropyltoluene | | 6.1 | U | 1.5 | 6.1 |
| Vinyl acetate | | 12 | U | 2.3 | 12 |
| Vinyl chloride | | 6.1 | U | 1.1 | 6.1 |
| Methyl tert-butyl ether | | 61 | U | 2.2 | 61 |
| Naphthalene | | 6.1 | U | 4.2 | 6.1 |
| N-Propylbenzene | | 6.1 | U | 1.5 | 6.1 |
| 1,2,3-Trichlorobenzene | | 6.1 | U | 1.2 | 6.1 |
| 1,2,4-Trichlorobenzene | | 6.1 | U | 2.7 | 6.1 |
| Freon 113 | | 6.1 | U * | 1.2 | 6.1 |
| 1,2,4-Trimethylbenzene | | 6.1 | U | 1.2 | 6.1 |
| 1,3,5-Trimethylbenzene | | 6.1 | U | 1.6 | 6.1 |
| o-Xylene | | 6.1 | U | 1.7 | 6.1 |
| m-Xylene & p-Xylene | | 12 | U | 2.5 | 12 |
| 1-Chlorohexane | | 6.1 | U | 0.96 | 6.1 |
| Hexane | | 6.1 | U | 2.8 | 6.1 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 104 | 68 - 121 |
| Dibromofluoromethane | 102 | 66 - 127 |
| Toluene-d8 (Surr) | 109 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

Lab Sample ID: 680-21196-3
Client Matrix: Solid
% Moisture: 24.4
Date Sampled: 10/17/2006 1130
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1533
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1121.d
Initial Weight/Volume: 6.0 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acetone | | 55 | U | 3.3 | 55 |
| Acetonitrile | | 220 | U | 31 | 220 |
| Acrolein | | 110 | U | 12 | 110 |
| Bromobenzene | | 5.5 | U | 1.0 | 5.5 |
| Bromochloromethane | | 5.5 | U | 1.0 | 5.5 |
| Acrylonitrile | | 110 | U | 17 | 110 |
| Benzene | | 5.5 | U * | 0.95 | 5.5 |
| Dichlorobromomethane | | 5.5 | U | 1.1 | 5.5 |
| Bromoform | | 5.5 | U | 2.4 | 5.5 |
| Methyl bromide | | 5.5 | U | 1.4 | 5.5 |
| n-Butylbenzene | | 5.5 | U | 1.1 | 5.5 |
| Methyl Ethyl Ketone | | 28 | U | 4.4 | 28 |
| Carbon disulfide | | 5.5 | U | 1.1 | 5.5 |
| sec-Butylbenzene | | 5.5 | U | 1.2 | 5.5 |
| Carbon tetrachloride | | 5.5 | U | 0.98 | 5.5 |
| tert-Butylbenzene | | 5.5 | U | 1.3 | 5.5 |
| Chlorobenzene | | 5.5 | U | 0.76 | 5.5 |
| Chloroethane | | 5.5 | U | 1.7 | 5.5 |
| Chloroform | | 5.5 | U | 0.97 | 5.5 |
| Methyl chloride | | 5.5 | U | 0.77 | 5.5 |
| Allyl chloride | | 5.5 | U | 1.3 | 5.5 |
| Chlorodibromomethane | | 5.5 | U | 1.2 | 5.5 |
| 1,2-Dibromo-3-Chloropropane | | 11 | U | 5.1 | 11 |
| 1,2-Dibromoethane | | 5.5 | U | 1.5 | 5.5 |
| 2-Chlorotoluene | | 5.5 | U | 1.5 | 5.5 |
| Methylene bromide | | 5.5 | U | 1.4 | 5.5 |
| trans-1,4-Dichloro-2-butene | | 11 | U | 4.4 | 11 |
| 4-Chlorotoluene | | 5.5 | U | 0.86 | 5.5 |
| Dichlorodifluoromethane | | 5.5 | U | 2.8 | 5.5 |
| 1,1-Dichloroethane | | 5.5 | U | 1.1 | 5.5 |
| 1,2-Dichloroethane | | 5.5 | U | 1.3 | 5.5 |
| 1,1-Dichloroethylene | | 5.5 | U | 1.2 | 5.5 |
| o-Dichlorobenzene | | 5.5 | U | 2.0 | 5.5 |
| trans-1,2-Dichloroethylene | | 5.5 | U | 1.2 | 5.5 |
| m-Dichlorobenzene | | 5.5 | U | 1.2 | 5.5 |
| 1,2-Dichloropropane | | 5.5 | U | 1.4 | 5.5 |
| cis-1,3-Dichloropropene | | 5.5 | U | 1.0 | 5.5 |
| p-Dichlorobenzene | | 5.5 | U | 1.5 | 5.5 |
| trans-1,3-Dichloropropene | | 5.5 | U | 1.2 | 5.5 |
| Ethylbenzene | | 5.5 | U | 0.96 | 5.5 |
| Ethyl methacrylate | | 5.5 | U | 0.85 | 5.5 |
| 2-Hexanone | | 28 | U | 6.0 | 28 |
| Methyl iodide | | 5.5 | U | 1.1 | 5.5 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

Lab Sample ID: 680-21196-3
Client Matrix: Solid
% Moisture: 24.4
Date Sampled: 10/17/2006 1130
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5035
Dilution: 1.0
Date Analyzed: 10/18/2006 1533
Date Prepared: 10/18/2006 1150

Analysis Batch: 680-57681
Prep Batch: 680-57715

Instrument ID: GC/MS Volatiles - L
Lab File ID: I1121.d
Initial Weight/Volume: 6.0 g
Final Weight/Volume: 5 g

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| cis-Dichloroethylene | | 5.5 | U | 0.97 | 5.5 |
| Methacrylonitrile | | 110 | U | 18 | 110 |
| Methylene Chloride | | 5.5 | U | 1.8 | 5.5 |
| Methyl methacrylate | | 5.5 | U | 1.8 | 5.5 |
| 1,3-Dichloropropane | | 5.5 | U | 1.3 | 5.5 |
| 4-Methyl-2-pentanone (MIBK) | | 28 | U | 6.4 | 28 |
| Pentachloroethane | | 28 | U | 5.1 | 28 |
| 2,2-Dichloropropane | | 5.5 | U | 1.3 | 5.5 |
| Propionitrile | | 110 | U | 25 | 110 |
| 1,1-Dichloropropene | | 5.5 | U | 1.5 | 5.5 |
| Styrene | | 5.5 | U | 0.94 | 5.5 |
| 1,1,1,2-Tetrachloroethane | | 5.5 | U | 1.5 | 5.5 |
| 1,1,2,2-Tetrachloroethane | | 5.5 | U | 1.1 | 5.5 |
| Tetrachloroethylene | | 5.5 | U | 1.1 | 5.5 |
| Toluene | | 5.5 | U | 1.1 | 5.5 |
| Hexachlorobutadiene | | 5.5 | U | 1.8 | 5.5 |
| 1,1,1-Trichloroethane | | 5.5 | U | 0.94 | 5.5 |
| 1,1,2-Trichloroethane | | 5.5 | U | 1.3 | 5.5 |
| Trichloroethylene | | 5.5 | U | 1.3 | 5.5 |
| Isopropylbenzene | | 5.5 | U | 1.1 | 5.5 |
| Trichlorofluoromethane | | 5.5 | U | 1.5 | 5.5 |
| 1,2,3-Trichloropropane | | 5.5 | U | 3.0 | 5.5 |
| p-Isopropyltoluene | | 5.5 | U | 1.3 | 5.5 |
| Vinyl acetate | | 11 | U | 2.1 | 11 |
| Vinyl chloride | | 5.5 | U | 1.0 | 5.5 |
| Methyl tert-butyl ether | | 55 | U | 2.0 | 55 |
| Naphthalene | | 5.5 | U | 3.7 | 5.5 |
| N-Propylbenzene | | 5.5 | U | 1.3 | 5.5 |
| 1,2,3-Trichlorobenzene | | 5.5 | U | 1.1 | 5.5 |
| 1,2,4-Trichlorobenzene | | 5.5 | U | 2.4 | 5.5 |
| Freon 113 | | 5.5 | U * | 1.1 | 5.5 |
| 1,2,4-Trimethylbenzene | | 5.5 | U | 1.1 | 5.5 |
| 1,3,5-Trimethylbenzene | | 5.5 | U | 1.4 | 5.5 |
| o-Xylene | | 5.5 | U | 1.5 | 5.5 |
| m-Xylene & p-Xylene | | 11 | U | 2.2 | 11 |
| 1-Chlorohexane | | 5.5 | U | 0.86 | 5.5 |
| Hexane | | 5.5 | U | 2.5 | 5.5 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 107 | 68 - 121 |
| Dibromofluoromethane | 105 | 66 - 127 |
| Toluene-d8 (Surr) | 108 | 65 - 128 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21196-4TB
Client Matrix: Water

Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/18/2006 1346
Date Prepared: 10/18/2006 1346

Analysis Batch: 680-57680

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1535.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |
| 2-Hexanone | 10 | U | 0.39 | 10 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **Trip Blank**

Lab Sample ID: 680-21196-4TB
Client Matrix: Water

Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

**8260B Volatile Organic Compounds by GC/MS**

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 10/18/2006 1346
Date Prepared: 10/18/2006 1346

Analysis Batch: 680-57680

Instrument ID: GC/MS Volatiles - O
Lab File ID: o1535.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---|---|---|---|---|
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 97 | 77 - 120 |
| Dibromofluoromethane | 87 | 75 - 123 |
| Toluene-d8 (Surr) | 101 | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

Lab Sample ID: 680-21196-1
Client Matrix: Solid
% Moisture: 23.6
Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/19/2006 1713
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4038.d
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 430 | U | 25 | 430 |
| Acenaphthylene | | 430 | U | 22 | 430 |
| Anthracene | | 430 | U | 30 | 430 |
| Benzidine | | 3500 | U | 110 | 3500 |
| Benzo[a]anthracene | | 430 | U | 40 | 430 |
| Benzo[a]pyrene | | 430 | U | 25 | 430 |
| Benzo[b]fluoranthene | | 430 | U | 34 | 430 |
| Benzo[g,h,i]perylene | | 430 | U | 30 | 430 |
| Benzoic acid | | 2200 | U | 220 | 2200 |
| Benzo[k]fluoranthene | | 430 | U | 47 | 430 |
| Benzyl alcohol | | 430 | U | 50 | 430 |
| Bis(2-chloroethoxy)methane | | 430 | U | 31 | 430 |
| Bis(2-chloroethyl)ether | | 430 | U | 37 | 430 |
| bis(chloroisopropyl) ether | | 430 | U | 46 | 430 |
| Bis(2-ethylhexyl) phthalate | | 430 | U | 50 | 430 |
| 4-Bromophenyl phenyl ether | | 430 | U | 40 | 430 |
| Butyl benzyl phthalate | | 430 | U | 35 | 430 |
| 4-Chloroaniline | | 860 | U | 34 | 860 |
| 4-Chloro-3-methylphenol | | 430 | U | 44 | 430 |
| 2-Chloronaphthalene | | 430 | U | 31 | 430 |
| 2-Chlorophenol | | 430 | U | 35 | 430 |
| 4-Chlorophenyl phenyl ether | | 430 | U | 25 | 430 |
| Chrysene | | 430 | U | 33 | 430 |
| Dibenz(a,h)anthracene | | 430 | U | 31 | 430 |
| Dibenzofuran | | 430 | U | 25 | 430 |
| 1,2-Dichlorobenzene | | 430 | U | 30 | 430 |
| 1,3-Dichlorobenzene | | 430 | U | 34 | 430 |
| 1,4-Dichlorobenzene | | 430 | U | 29 | 430 |
| 3,3'-Dichlorobenzidine | | 860 | U | 39 | 860 |
| 2,4-Dichlorophenol | | 430 | U | 30 | 430 |
| Diethyl phthalate | | 430 | U | 29 | 430 |
| 2,4-Dimethylphenol | | 430 | U | 46 | 430 |
| Dimethyl phthalate | | 430 | U | 25 | 430 |
| Di-n-butyl phthalate | | 430 | U | 37 | 430 |
| 4,6-Dinitro-o-cresol | | 2200 | U | 260 | 2200 |
| 2,4-Dinitrophenol | | 2200 | U | 220 | 2200 |
| 2,6-Dinitrotoluene | | 430 | U | 43 | 430 |
| 2,4-Dinitrotoluene | | 430 | U | 25 | 430 |
| Di-n-octyl phthalate | | 430 | U | 40 | 430 |
| Fluoranthene | | 430 | U | 34 | 430 |
| Fluorene | | 430 | U | 29 | 430 |
| Hexachlorobenzene | | 430 | U | 34 | 430 |
| Hexachlorobutadiene | | 430 | U | 26 | 430 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-1 | | | Date Sampled: | 10/17/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 23.6 | Date Received: | 10/18/2006 0905 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57867 | | Instrument ID: | GC/MS SemiVolatiles - N |
| Preparation: | 3550B | Prep Batch: 680-57702 | | Lab File ID: | n4038.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.07 g |
| Date Analyzed: | 10/19/2006 1713 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 430 | U | 110 | 430 |
| Hexachloroethane | | 430 | U | 26 | 430 |
| Indeno[1,2,3-cd]pyrene | | 430 | U | 34 | 430 |
| Isophorone | | 430 | U | 29 | 430 |
| 2-Methylnaphthalene | | 430 | U | 31 | 430 |
| 2-Methylphenol | | 430 | U | 39 | 430 |
| 3 & 4 Methylphenol | | 430 | U | 38 | 430 |
| Naphthalene | | 430 | U | 25 | 430 |
| 3-Nitroaniline | | 2200 | U | 43 | 2200 |
| 2-Nitroaniline | | 2200 | U | 30 | 2200 |
| 4-Nitroaniline | | 2200 | U | 22 | 2200 |
| Nitrobenzene | | 430 | U | 46 | 430 |
| 4-Nitrophenol | | 2200 | U | 270 | 2200 |
| 2-Nitrophenol | | 430 | U | 26 | 430 |
| N-Nitrosodi-n-propylamine | | 430 | U | 37 | 430 |
| N-Nitrosodiphenylamine | | 430 | U | 30 | 430 |
| Pentachlorophenol | | 2200 | U | 110 | 2200 |
| Phenanthrene | | 430 | U | 38 | 430 |
| Phenol | | 430 | U | 39 | 430 |
| Pyrene | | 430 | U | 26 | 430 |
| 1,2,4-Trichlorobenzene | | 430 | U | 27 | 430 |
| 2,4,5-Trichlorophenol | | 430 | U | 42 | 430 |
| 2,4,6-Trichlorophenol | | 430 | U | 26 | 430 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 69 | 38 - 104 |
| 2-Fluorophenol | 68 | 36 - 101 |
| Nitrobenzene-d5 | 66 | 33 - 94 |
| Phenol-d5 | 70 | 38 - 102 |
| Terphenyl-d14 | 78 | 40 - 129 |
| 2,4,6-Tribromophenol | 78 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid
% Moisture: 23.0
Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/19/2006 1738
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4039.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 430 | U | 25 | 430 |
| Acenaphthylene | | 430 | U | 22 | 430 |
| Anthracene | | 430 | U | 30 | 430 |
| Benzidine | | 3500 | U | 110 | 3500 |
| Benzo[a]anthracene | | 430 | U | 40 | 430 |
| Benzo[a]pyrene | | 430 | U | 25 | 430 |
| Benzo[b]fluoranthene | | 430 | U | 34 | 430 |
| Benzo[g,h,i]perylene | | 430 | U | 30 | 430 |
| Benzoic acid | | 2200 | U | 220 | 2200 |
| Benzo[k]fluoranthene | | 430 | U | 47 | 430 |
| Benzyl alcohol | | 430 | U | 49 | 430 |
| Bis(2-chloroethoxy)methane | | 430 | U | 31 | 430 |
| Bis(2-chloroethyl)ether | | 430 | U | 36 | 430 |
| bis(chloroisopropyl) ether | | 430 | U | 45 | 430 |
| Bis(2-ethylhexyl) phthalate | | 430 | U | 49 | 430 |
| 4-Bromophenyl phenyl ether | | 430 | U | 40 | 430 |
| Butyl benzyl phthalate | | 430 | U | 35 | 430 |
| 4-Chloroaniline | | 860 | U | 34 | 860 |
| 4-Chloro-3-methylphenol | | 430 | U | 44 | 430 |
| 2-Chloronaphthalene | | 430 | U | 31 | 430 |
| 2-Chlorophenol | | 430 | U | 35 | 430 |
| 4-Chlorophenyl phenyl ether | | 430 | U | 25 | 430 |
| Chrysene | | 430 | U | 32 | 430 |
| Dibenz(a,h)anthracene | | 430 | U | 31 | 430 |
| Dibenzofuran | | 430 | U | 25 | 430 |
| 1,2-Dichlorobenzene | | 430 | U | 30 | 430 |
| 1,3-Dichlorobenzene | | 430 | U | 34 | 430 |
| 1,4-Dichlorobenzene | | 430 | U | 29 | 430 |
| 3,3'-Dichlorobenzidine | | 860 | U | 39 | 860 |
| 2,4-Dichlorophenol | | 430 | U | 30 | 430 |
| Diethyl phthalate | | 430 | U | 29 | 430 |
| 2,4-Dimethylphenol | | 430 | U | 45 | 430 |
| Dimethyl phthalate | | 430 | U | 25 | 430 |
| Di-n-butyl phthalate | | 430 | U | 36 | 430 |
| 4,6-Dinitro-o-cresol | | 2200 | U | 260 | 2200 |
| 2,4-Dinitrophenol | | 2200 | U | 220 | 2200 |
| 2,6-Dinitrotoluene | | 430 | U | 43 | 430 |
| 2,4-Dinitrotoluene | | 430 | U | 25 | 430 |
| Di-n-octyl phthalate | | 430 | U | 40 | 430 |
| Fluoranthene | | 430 | U | 34 | 430 |
| Fluorene | | 430 | U | 29 | 430 |
| Hexachlorobenzene | | 430 | U | 34 | 430 |
| Hexachlorobutadiene | | 430 | U | 26 | 430 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid
% Moisture: 23.0
Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/19/2006 1738
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4039.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 430 | U | 110 | 430 |
| Hexachloroethane | | 430 | U | 26 | 430 |
| Indeno[1,2,3-cd]pyrene | | 430 | U | 34 | 430 |
| Isophorone | | 430 | U | 29 | 430 |
| 2-Methylnaphthalene | | 430 | U | 31 | 430 |
| 2-Methylphenol | | 430 | U | 39 | 430 |
| 3 & 4 Methylphenol | | 430 | U | 38 | 430 |
| Naphthalene | | 430 | U | 25 | 430 |
| 3-Nitroaniline | | 2200 | U | 43 | 2200 |
| 2-Nitroaniline | | 2200 | U | 30 | 2200 |
| 4-Nitroaniline | | 2200 | U | 22 | 2200 |
| Nitrobenzene | | 430 | U | 45 | 430 |
| 4-Nitrophenol | | 2200 | U | 270 | 2200 |
| 2-Nitrophenol | | 430 | U | 26 | 430 |
| N-Nitrosodi-n-propylamine | | 430 | U | 36 | 430 |
| N-Nitrosodiphenylamine | | 430 | U | 30 | 430 |
| Pentachlorophenol | | 2200 | U | 110 | 2200 |
| Phenanthrene | | 430 | U | 38 | 430 |
| Phenol | | 430 | U | 39 | 430 |
| Pyrene | | 430 | U | 26 | 430 |
| 1,2,4-Trichlorobenzene | | 430 | U | 27 | 430 |
| 2,4,5-Trichlorophenol | | 430 | U | 42 | 430 |
| 2,4,6-Trichlorophenol | | 430 | U | 26 | 430 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 58 | 38 - 104 |
| 2-Fluorophenol | 54 | 36 - 101 |
| Nitrobenzene-d5 | 50 | 33 - 94 |
| Phenol-d5 | 58 | 38 - 102 |
| Terphenyl-d14 | 75 | 40 - 129 |
| 2,4,6-Tribromophenol | 65 | 27 - 124 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

Lab Sample ID: 680-21196-3
Client Matrix: Solid
% Moisture: 24.4
Date Sampled: 10/17/2006 1130
Date Received: 10/18/2006 0905

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

Method: 8270C
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/19/2006 1804
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4040.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Acenaphthene | | 440 | U | 25 | 440 |
| Acenaphthylene | | 440 | U | 22 | 440 |
| Anthracene | | 440 | U | 30 | 440 |
| Benzidine | | 3600 | U | 110 | 3600 |
| Benzo[a]anthracene | | 440 | U | 41 | 440 |
| Benzo[a]pyrene | | 440 | U | 25 | 440 |
| Benzo[b]fluoranthene | | 440 | U | 34 | 440 |
| Benzo[g,h,i]perylene | | 440 | U | 30 | 440 |
| Benzoic acid | | 2200 | U | 220 | 2200 |
| Benzo[k]fluoranthene | | 440 | U | 48 | 440 |
| Benzyl alcohol | | 440 | U | 50 | 440 |
| Bis(2-chloroethoxy)methane | | 440 | U | 32 | 440 |
| Bis(2-chloroethyl)ether | | 440 | U | 37 | 440 |
| bis(chloroisopropyl) ether | | 440 | U | 46 | 440 |
| Bis(2-ethylhexyl) phthalate | | 440 | U | 50 | 440 |
| 4-Bromophenyl phenyl ether | | 440 | U | 41 | 440 |
| Butyl benzyl phthalate | | 440 | U | 36 | 440 |
| 4-Chloroaniline | | 870 | U | 34 | 870 |
| 4-Chloro-3-methylphenol | | 440 | U | 45 | 440 |
| 2-Chloronaphthalene | | 440 | U | 32 | 440 |
| 2-Chlorophenol | | 440 | U | 36 | 440 |
| 4-Chlorophenyl phenyl ether | | 440 | U | 25 | 440 |
| Chrysene | | 440 | U | 33 | 440 |
| Dibenz(a,h)anthracene | | 440 | U | 32 | 440 |
| Dibenzofuran | | 440 | U | 25 | 440 |
| 1,2-Dichlorobenzene | | 440 | U | 30 | 440 |
| 1,3-Dichlorobenzene | | 440 | U | 34 | 440 |
| 1,4-Dichlorobenzene | | 440 | U | 29 | 440 |
| 3,3'-Dichlorobenzidine | | 870 | U | 40 | 870 |
| 2,4-Dichlorophenol | | 440 | U | 30 | 440 |
| Diethyl phthalate | | 440 | U | 29 | 440 |
| 2,4-Dimethylphenol | | 440 | U | 46 | 440 |
| Dimethyl phthalate | | 440 | U | 25 | 440 |
| Di-n-butyl phthalate | | 440 | U | 37 | 440 |
| 4,6-Dinitro-o-cresol | | 2200 | U | 260 | 2200 |
| 2,4-Dinitrophenol | | 2200 | U | 220 | 2200 |
| 2,6-Dinitrotoluene | | 440 | U | 44 | 440 |
| 2,4-Dinitrotoluene | | 440 | U | 25 | 440 |
| Di-n-octyl phthalate | | 440 | U | 41 | 440 |
| Fluoranthene | | 440 | U | 34 | 440 |
| Fluorene | | 440 | U | 29 | 440 |
| Hexachlorobenzene | | 440 | U | 34 | 440 |
| Hexachlorobutadiene | | 440 | U | 26 | 440 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-3 | | | Date Sampled: | 10/17/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 24.4 | Date Received: | 10/18/2006 0905 |

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8270C | Analysis Batch: 680-57867 | | Instrument ID: | GC/MS SemiVolatiles - N |
| Preparation: | 3550B | Prep Batch: 680-57702 | | Lab File ID: | n4040.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/19/2006 1804 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| Analyte | DryWt Corrected: Y | Result (ug/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Hexachlorocyclopentadiene | | 440 | U | 110 | 440 |
| Hexachloroethane | | 440 | U | 26 | 440 |
| Indeno[1,2,3-cd]pyrene | | 440 | U | 34 | 440 |
| Isophorone | | 440 | U | 29 | 440 |
| 2-Methylnaphthalene | | 440 | U | 32 | 440 |
| 2-Methylphenol | | 440 | U | 40 | 440 |
| 3 & 4 Methylphenol | | 440 | U | 38 | 440 |
| Naphthalene | | 440 | U | 25 | 440 |
| 3-Nitroaniline | | 2200 | U | 44 | 2200 |
| 2-Nitroaniline | | 2200 | U | 30 | 2200 |
| 4-Nitroaniline | | 2200 | U | 22 | 2200 |
| Nitrobenzene | | 440 | U | 46 | 440 |
| 4-Nitrophenol | | 2200 | U | 280 | 2200 |
| 2-Nitrophenol | | 440 | U | 26 | 440 |
| N-Nitrosodi-n-propylamine | | 440 | U | 37 | 440 |
| N-Nitrosodiphenylamine | | 440 | U | 30 | 440 |
| Pentachlorophenol | | 2200 | U | 110 | 2200 |
| Phenanthrene | | 440 | U | 38 | 440 |
| Phenol | | 440 | U | 40 | 440 |
| Pyrene | | 440 | U | 26 | 440 |
| 1,2,4-Trichlorobenzene | | 440 | U | 28 | 440 |
| 2,4,5-Trichlorophenol | | 440 | U | 42 | 440 |
| 2,4,6-Trichlorophenol | | 440 | U | 26 | 440 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 64 | 38 - 104 |
| 2-Fluorophenol | 61 | 36 - 101 |
| Nitrobenzene-d5 | 57 | 33 - 94 |
| Phenol-d5 | 65 | 38 - 102 |
| Terphenyl-d14 | 75 | 40 - 129 |
| 2,4,6-Tribromophenol | 66 | 27 - 124 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-1 | | | Date Sampled: | 10/17/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 23.6 | Date Received: | 10/18/2006 0905 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57715 | | Lab File ID: | PC18A12.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.1 g |
| Date Analyzed: | 10/18/2006 1526 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/18/2006 1150 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.32 | U | 0.11 | 0.32 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 90 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-2 | | | Date Sampled: | 10/17/2006 1115 |
| Client Matrix: | Solid | % Moisture: | 23.0 | Date Received: | 10/18/2006 0905 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57715 | | Lab File ID: | PC18A13.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5.6 g |
| Date Analyzed: | 10/18/2006 1606 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/18/2006 1150 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.29 | U | 0.095 | 0.29 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 87 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-3 | | | Date Sampled: | 10/17/2006 1130 |
| Client Matrix: | Solid | % Moisture: | 24.4 | Date Received: | 10/18/2006 0905 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57763 | | Instrument ID: | GC Volatiles - A |
| Preparation: | 5035 | Prep Batch: 680-57715 | | Lab File ID: | PC18A14.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 6.5 g |
| Date Analyzed: | 10/18/2006 1644 | | | Final Weight/Volume: | 5 g |
| Date Prepared: | 10/18/2006 1150 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | 0.25 | U | 0.083 | 0.25 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 87 | 61 - 139 |

# Analytical Data

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23A**

| | | | | | |
|---|---|---|---|---|---|
| Lab Sample ID: | 680-21196-1 | | | Date Sampled: | 10/17/2006 1100 |
| Client Matrix: | Solid | % Moisture: | 23.6 | Date Received: | 10/18/2006 0905 |

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

| | | | | | |
|---|---|---|---|---|---|
| Method: | 8015B | Analysis Batch: 680-57840 | | Instrument ID: | GC SemiVolatiles - Q |
| Preparation: | 3550B | Prep Batch: 680-57703 | | Lab File ID: | q0190008.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.09 g |
| Date Analyzed: | 10/19/2006 1122 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1320 | | | Injection Volume: | |
| | | | | Column ID: | PRIMARY |

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 20 | | 2.2 | 4.3 |
| Oil Range Organics (C20-C36) | | 22 | U | 11 | 22 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 68 | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid
% Moisture: 23.0
Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/18/2006 1759
Date Prepared: 10/18/2006 1320

Analysis Batch: 680-57845
Prep Batch: 680-57703

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0180031.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 3.7 | J | 2.2 | 4.3 |
| Oil Range Organics (C20-C36) | | 22 | U | 11 | 22 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 70 | 15 - 154 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Client Sample ID:** **WPOL-SW23C**

Lab Sample ID: 680-21196-3
Client Matrix: Solid
% Moisture: 24.4
Date Sampled: 10/17/2006 1130
Date Received: 10/18/2006 0905

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 10/18/2006 1816
Date Prepared: 10/18/2006 1320

Analysis Batch: 680-57845
Prep Batch: 680-57703

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0180032.d
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | DryWt Corrected: Y | Result (mg/Kg) | Qualifier | MDL | RL |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | | 4.3 | U | 2.2 | 4.3 |
| Oil Range Organics (C20-C36) | | 22 | U | 11 | 22 |

| Surrogate | %Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 65 | 15 - 154 |

**General Chemistry**

**Client Sample ID: WPOL-SW23A**

Lab Sample ID: 680-21196-1
Client Matrix: Solid

Date Sampled: 10/17/2006 1100
Date Received: 10/18/2006 0905

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 24 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |
| Percent Solids | 76 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |

**Client Sample ID: WPOL-SW23B**

Lab Sample ID: 680-21196-2
Client Matrix: Solid

Date Sampled: 10/17/2006 1115
Date Received: 10/18/2006 0905

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 23 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |
| Percent Solids | 77 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |

**Client Sample ID: WPOL-SW23C**

Lab Sample ID: 680-21196-3
Client Matrix: Solid

Date Sampled: 10/17/2006 1130
Date Received: 10/18/2006 0905

| Analyte | Result | Qual | Units | RL | RL | Dil | Method |
|---|---|---|---|---|---|---|---|
| Percent Moisture | 24 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |
| Percent Solids | 76 | | % | 1.0 | 1.0 | 1.0 | PercentMoisture |
| | Anly Batch: 680-57743 | Date Analyzed | 10/18/2006 1434 | | | | |

# DATA REPORTING QUALIFIERS

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Lab Section | Qualifier | Description |
|---|---|---|
| GC/MS VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | * | LCS or LCSD exceeds the control limits |
| GC/MS Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| GC VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| GC Semi VOA | | |
| | U | Indicates the analyte was analyzed for but not detected. |
| | J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC/MS VOA** | | | | | |
| **Analysis Batch:680-57680** | | | | | |
| LCS 680-57680/7 | Lab Control Spike | T | Water | 8260B | |
| MB 680-57680/8 | Method Blank | T | Water | 8260B | |
| 680-21196-4TB | Trip Blank | T | Water | 8260B | |
| **Analysis Batch:680-57681** | | | | | |
| LCS 680-57681/15 | Lab Control Spike | T | Solid | 8260B | |
| MB 680-57681/5 | Method Blank | T | Solid | 8260B | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 8260B | 680-57715 |
| 680-21196-2 | WPOL-SW23B | T | Solid | 8260B | 680-57715 |
| 680-21196-3 | WPOL-SW23C | T | Solid | 8260B | 680-57715 |
| **Prep Batch: 680-57715** | | | | | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 5035 | |
| 680-21196-2 | WPOL-SW23B | T | Solid | 5035 | |
| 680-21196-3 | WPOL-SW23C | T | Solid | 5035 | |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **GC/MS Semi VOA** | | | | | |
| **Prep Batch: 680-57702** | | | | | |
| LCS 680-57702/5-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57702/4-A | Method Blank | T | Solid | 3550B | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 3550B | |
| 680-21196-2 | WPOL-SW23B | T | Solid | 3550B | |
| 680-21196-3 | WPOL-SW23C | T | Solid | 3550B | |
| 680-21196-3MS | Matrix Spike | T | Solid | 3550B | |
| 680-21196-3MSD | Matrix Spike Duplicate | T | Solid | 3550B | |
| **Analysis Batch:680-57867** | | | | | |
| LCS 680-57702/5-A | Lab Control Spike | T | Solid | 8270C | 680-57702 |
| MB 680-57702/4-A | Method Blank | T | Solid | 8270C | 680-57702 |
| 680-21196-1 | WPOL-SW23A | T | Solid | 8270C | 680-57702 |
| 680-21196-2 | WPOL-SW23B | T | Solid | 8270C | 680-57702 |
| 680-21196-3 | WPOL-SW23C | T | Solid | 8270C | 680-57702 |
| 680-21196-3MS | Matrix Spike | T | Solid | 8270C | 680-57702 |
| 680-21196-3MSD | Matrix Spike Duplicate | T | Solid | 8270C | 680-57702 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **GC VOA** | | | | | |
| **Prep Batch: 680-57715** | | | | | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 5035 | |
| 680-21196-2 | WPOL-SW23B | T | Solid | 5035 | |
| 680-21196-3 | WPOL-SW23C | T | Solid | 5035 | |
| **Analysis Batch:680-57763** | | | | | |
| LCS 680-57763/4 | Lab Control Spike | T | Solid | 8015B | |
| MB 680-57763/5 | Method Blank | T | Solid | 8015B | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 8015B | 680-57715 |
| 680-21196-2 | WPOL-SW23B | T | Solid | 8015B | 680-57715 |
| 680-21196-3 | WPOL-SW23C | T | Solid | 8015B | 680-57715 |

**Report Basis**
T = Total

| | | | | | |
|---|---|---|---|---|---|
| **GC Semi VOA** | | | | | |
| **Prep Batch: 680-57703** | | | | | |
| LCS 680-57703/5-A | Lab Control Spike | T | Solid | 3550B | |
| MB 680-57703/4-A | Method Blank | T | Solid | 3550B | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 3550B | |
| 680-21196-2 | WPOL-SW23B | T | Solid | 3550B | |
| 680-21196-3 | WPOL-SW23C | T | Solid | 3550B | |
| 680-21196-3MS | Matrix Spike | T | Solid | 3550B | |
| 680-21196-3MSD | Matrix Spike Duplicate | T | Solid | 3550B | |
| **Analysis Batch:680-57840** | | | | | |
| 680-21196-1 | WPOL-SW23A | T | Solid | 8015B | 680-57703 |
| **Analysis Batch:680-57845** | | | | | |
| LCS 680-57703/5-A | Lab Control Spike | T | Solid | 8015B | 680-57703 |
| MB 680-57703/4-A | Method Blank | T | Solid | 8015B | 680-57703 |
| 680-21196-2 | WPOL-SW23B | T | Solid | 8015B | 680-57703 |
| 680-21196-3 | WPOL-SW23C | T | Solid | 8015B | 680-57703 |
| 680-21196-3MS | Matrix Spike | T | Solid | 8015B | 680-57703 |
| 680-21196-3MSD | Matrix Spike Duplicate | T | Solid | 8015B | 680-57703 |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| **General Chemistry** | | | | | |
| **Analysis Batch:680-57743** | | | | | |
| 680-21196-1 | WPOL-SW23A | T | Solid | PercentMoisture | |
| 680-21196-2 | WPOL-SW23B | T | Solid | PercentMoisture | |
| 680-21196-3 | WPOL-SW23C | T | Solid | PercentMoisture | |

**Report Basis**
T = Total

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57681/15 | | 98 | 97 | 104 |
| MB 680-57681/5 | | 105 | 105 | 98 |
| 680-21196-1 | WPOL-SW23A | 106 | 108 | 105 |
| 680-21196-2 | WPOL-SW23B | 104 | 102 | 109 |
| 680-21196-3 | WPOL-SW23C | 107 | 105 | 108 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 68 - 121 |
| (DBFM) | Dibromofluoromethane | 66 - 127 |
| (TOL) | Toluene-d8 (Surr) | 65 - 128 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## Surrogate Recovery Report

**8260B Volatile Organic Compounds by GC/MS**

**Client Matrix: Water**

| Lab Sample ID | Client Sample | (BFB) (%Rec) | (DBFM) (%Rec) | (TOL) (%Rec) |
|---|---|---|---|---|
| LCS 680-57680/7 | | 95 | 91 | 102 |
| MB 680-57680/8 | | 95 | 89 | 100 |
| 680-21196-4TB | Trip Blank | 97 | 87 | 101 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (BFB) | 4-Bromofluorobenzene | 77 - 120 |
| (DBFM) | Dibromofluoromethane | 75 - 123 |
| (TOL) | Toluene-d8 (Surr) | 79 - 122 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## Surrogate Recovery Report

**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (2FP) (%Rec) | (FBP) (%Rec) | (NBZ) (%Rec) | (PHL) (%Rec) | (TBP) (%Rec) | (TPH) (%Rec) |
|---|---|---|---|---|---|---|---|
| 680-21196-3MS | WPOL-SW23C | 64 | 67 | 63 | 69 | 82 | 75 |
| 680-21196-3MSD | WPOL-SW23C | 61 | 65 | 62 | 65 | 76 | 68 |
| LCS 680-57702/5-A | | 94 | 92 | 92 | 96 | 108 | 100 |
| MB 680-57702/4-A | | 85 | 82 | 78 | 89 | 94 | 99 |
| 680-21196-1 | WPOL-SW23A | 68 | 69 | 66 | 70 | 78 | 78 |
| 680-21196-2 | WPOL-SW23B | 54 | 58 | 50 | 58 | 65 | 75 |
| 680-21196-3 | WPOL-SW23C | 61 | 64 | 57 | 65 | 66 | 75 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (2FP) | 2-Fluorophenol | 36 - 101 |
| (FBP) | 2-Fluorobiphenyl | 38 - 104 |
| (NBZ) | Nitrobenzene-d5 | 33 - 94 |
| (PHL) | Phenol-d5 | 38 - 102 |
| (TBP) | 2,4,6-Tribromophenol | 27 - 124 |
| (TPH) | Terphenyl-d14 | 40 - 129 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Gasoline Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (TFT) (%Rec) |
|---|---|---|
| LCS 680-57763/4 | | 96 |
| MB 680-57763/5 | | 92 |
| 680-21196-1 | WPOL-SW23A | 90 |
| 680-21196-2 | WPOL-SW23B | 87 |
| 680-21196-3 | WPOL-SW23C | 87 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (TFT) | a,a,a-Trifluorotoluene | 61 - 139 |

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

## Surrogate Recovery Report

**8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)**

**Client Matrix: Solid**

| Lab Sample ID | Client Sample | (OTPH) (%Rec) |
|---|---|---|
| 680-21196-3MS | WPOL-SW23C | 64 |
| 680-21196-3MSD | WPOL-SW23C | 72 |
| LCS 680-57703/5-A | | 81 |
| MB 680-57703/4-A | | 82 |
| 680-21196-1 | WPOL-SW23A | 68 |
| 680-21196-2 | WPOL-SW23B | 70 |
| 680-21196-3 | WPOL-SW23C | 65 |

| Surrogate | | Acceptance Limits |
|---|---|---|
| (OTPH) | o-Terphenyl | 15 - 154 |

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57680/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1247
Date Prepared: 10/18/2006 1247

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq595.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 25 | U | 7.3 | 25 |
| Acetonitrile | 40 | U | 0.23 | 40 |
| Acrolein | 20 | U | 12 | 20 |
| Bromobenzene | 1.0 | U | 0.45 | 1.0 |
| Acrylonitrile | 20 | U | 3.2 | 20 |
| Bromochloromethane | 1.0 | U | 0.25 | 1.0 |
| Benzene | 1.0 | U | 0.54 | 1.0 |
| Dichlorobromomethane | 1.0 | U | 0.42 | 1.0 |
| Bromoform | 1.0 | U | 0.36 | 1.0 |
| Methyl bromide | 1.0 | U | 0.93 | 1.0 |
| Methyl Ethyl Ketone | 10 | U | 0.72 | 10 |
| n-Butylbenzene | 1.0 | U | 0.38 | 1.0 |
| Carbon disulfide | 2.0 | U | 0.75 | 2.0 |
| sec-Butylbenzene | 1.0 | U | 0.60 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.91 | 1.0 |
| tert-Butylbenzene | 1.0 | U | 0.63 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.41 | 1.0 |
| Chloroethane | 1.0 | U | 0.89 | 1.0 |
| Chloroform | 1.0 | U | 0.52 | 1.0 |
| Methyl chloride | 1.0 | U | 0.53 | 1.0 |
| Allyl chloride | 1.0 | U | 0.35 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.40 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.65 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.34 | 1.0 |
| Methylene bromide | 1.0 | U | 0.33 | 1.0 |
| o-Chlorotoluene | 1.0 | U | 0.58 | 1.0 |
| p-Chlorotoluene | 1.0 | U | 0.44 | 1.0 |
| trans-1,4-Dichloro-2-butene | 2.0 | U | 0.80 | 2.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.73 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.56 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.28 | 1.0 |
| 1,1-Dichlorethylene | 1.0 | U | 0.93 | 1.0 |
| o-Dichlorobenzene | 1.0 | U | 0.21 | 1.0 |
| trans-1-2-Dichloroethylene | 1.0 | U | 0.80 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.26 | 1.0 |
| m-Dichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.41 | 1.0 |
| p-Dichlorobenzene | 1.0 | U | 0.44 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.62 | 1.0 |
| Ethyl methacrylate | 1.0 | U | 0.33 | 1.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: MB 680-57680/8
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1247
Date Prepared: 10/18/2006 1247

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq595.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 10 | U | 0.39 | 10 |
| cis-1,2-Dichloroethylene | 1.0 | U | 0.55 | 1.0 |
| Methyl iodide | 5.0 | U | 0.96 | 5.0 |
| Methacrylonitrile | 20 | U | 9.1 | 20 |
| Methylene Chloride | 5.0 | U | 0.44 | 5.0 |
| Methyl methacrylate | 1.0 | U | 0.36 | 1.0 |
| 1,3-Dichloropropane | 1.0 | U | 0.31 | 1.0 |
| 4-Methyl-2-pentanone | 10 | U | 0.45 | 10 |
| 2,2-Dichloropropane | 1.0 | U | 0.86 | 1.0 |
| Pentachloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,1-Dichloropropene | 1.0 | U | 0.80 | 1.0 |
| Propionitrile | 20 | U | 10 | 20 |
| Styrene | 1.0 | U | 0.42 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.53 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| Tetrachloroethylene | 1.0 | U | 0.75 | 1.0 |
| Hexachlorobutadiene | 1.0 | U | 0.50 | 1.0 |
| Toluene | 1.0 | U | 0.62 | 1.0 |
| 1,1,1-Trichloroethane | 1.0 | U | 0.79 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.37 | 1.0 |
| Trichloroethylene | 1.0 | U | 0.71 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.66 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.96 | 1.0 |
| 1,2,3-Trichloropropane | 1.0 | U | 0.44 | 1.0 |
| p-Isopropyltoluene | 1.0 | U | 0.52 | 1.0 |
| Vinyl acetate | 2.0 | U | 0.70 | 2.0 |
| Vinyl chloride | 1.0 | U | 0.92 | 1.0 |
| Methyl tert-butyl ether | 10 | U | 0.45 | 10 |
| Naphthalene | 5.0 | U | 0.12 | 5.0 |
| N-Propylbenzene | 1.0 | U | 0.45 | 1.0 |
| 1,2,3-Trichlorobenzene | 1.0 | U | 0.35 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.28 | 1.0 |
| Freon 113 | 1.0 | U | 0.10 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.44 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.49 | 1.0 |
| o-Xylene | 1.0 | U | 0.49 | 1.0 |
| m-Xylene & p-Xylene | 2.0 | U | 1.3 | 2.0 |
| 1-Chlorohexane | 1.0 | U | 0.42 | 1.0 |
| Hexane | 5.0 | U | 5.0 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95 | 77 - 120 |
| Dibromofluoromethane | 89 | 75 - 123 |
| Toluene-d8 (Surr) | 100 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57680/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1143
Date Prepared: 10/18/2006 1143

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq593.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 97.0 | 97 | 20 - 183 | |
| Bromobenzene | 50.0 | 48.5 | 97 | 55 - 131 | |
| Bromochloromethane | 50.0 | 49.6 | 99 | 50 - 154 | |
| Benzene | 50.0 | 50.9 | 102 | 74 - 122 | |
| Dichlorobromomethane | 50.0 | 58.6 | 117 | 74 - 128 | |
| Bromoform | 50.0 | 53.4 | 107 | 64 - 132 | |
| Methyl bromide | 50.0 | 34.2 | 68 | 21 - 176 | |
| Methyl Ethyl Ketone | 100 | 102 | 102 | 51 - 142 | |
| n-Butylbenzene | 50.0 | 53.2 | 106 | 47 - 130 | |
| Carbon disulfide | 50.0 | 41.4 | 83 | 60 - 130 | |
| sec-Butylbenzene | 50.0 | 49.3 | 99 | 53 - 125 | |
| Carbon tetrachloride | 50.0 | 60.2 | 120 | 64 - 137 | |
| tert-Butylbenzene | 50.0 | 49.4 | 99 | 51 - 134 | |
| Chlorobenzene | 50.0 | 47.4 | 95 | 75 - 123 | |
| Chloroethane | 50.0 | 32.6 | 65 | 40 - 171 | |
| Chloroform | 50.0 | 47.8 | 96 | 74 - 124 | |
| Methyl chloride | 50.0 | 42.3 | 85 | 51 - 133 | |
| Dibromochloromethane | 50.0 | 53.4 | 107 | 75 - 126 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 46.7 | 93 | 14 - 147 | |
| 1,2-Dibromoethane | 50.0 | 52.6 | 105 | 60 - 118 | |
| Methylene bromide | 50.0 | 53.7 | 107 | 70 - 130 | |
| o-Chlorotoluene | 50.0 | 49.4 | 99 | 53 - 133 | |
| p-Chlorotoluene | 50.0 | 47.9 | 96 | 47 - 132 | |
| Dichlorodifluoromethane | 50.0 | 36.4 | 73 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 45.5 | 91 | 70 - 127 | |
| 1,2-Dichloroethane | 50.0 | 59.8 | 120 | 68 - 130 | |
| 1,1-Dichlorethylene | 50.0 | 46.4 | 93 | 64 - 132 | |
| o-Dichlorobenzene | 50.0 | 48.6 | 97 | 71 - 125 | |
| trans-1-2-Dichloroethylene | 50.0 | 45.9 | 92 | 67 - 130 | |
| 1,2-Dichloropropane | 50.0 | 52.1 | 104 | 74 - 123 | |
| m-Dichlorobenzene | 50.0 | 48.0 | 96 | 70 - 125 | |
| cis-1,3-Dichloropropene | 50.0 | 53.6 | 107 | 76 - 126 | |
| p-Dichlorobenzene | 50.0 | 48.7 | 97 | 65 - 127 | |
| trans-1,3-Dichloropropene | 50.0 | 55.6 | 111 | 75 - 126 | |
| Ethylbenzene | 50.0 | 48.7 | 97 | 77 - 123 | |
| 2-Hexanone | 100 | 115 | 115 | 58 - 139 | |
| cis-1,2-Dichloroethylene | 50.0 | 43.0 | 86 | 69 - 126 | |
| Methylene Chloride | 50.0 | 43.7 | 87 | 67 - 128 | |
| 1,3-Dichloropropane | 50.0 | 52.8 | 106 | 60 - 125 | |
| 4-Methyl-2-pentanone | 100 | 116 | 116 | 62 - 130 | |
| 2,2-Dichloropropane | 50.0 | 51.0 | 102 | 42 - 155 | |
| 1,1-Dichloropropene | 50.0 | 54.4 | 109 | 70 - 130 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57680**

**Method: 8260B**
**Preparation: 5030B**

Lab Sample ID: LCS 680-57680/7
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 10/18/2006 1143
Date Prepared: 10/18/2006 1143

Analysis Batch: 680-57680
Prep Batch: N/A
Units: ug/L

Instrument ID: GC/MS Volatiles - O
Lab File ID: oq593.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 45.9 | 92 | 75 - 125 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 51.5 | 103 | 62 - 107 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 47.9 | 96 | 71 - 127 | |
| Tetrachloroethylene | 50.0 | 48.2 | 96 | 70 - 133 | |
| Hexachlorobutadiene | 50.0 | 54.5 | 109 | 58 - 133 | |
| Toluene | 50.0 | 50.0 | 100 | 75 - 122 | |
| 1,1,1-Trichloroethane | 50.0 | 57.8 | 116 | 70 - 132 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 75 - 122 | |
| Trichloroethylene | 50.0 | 50.8 | 102 | 75 - 122 | |
| Isopropylbenzene | 50.0 | 50.0 | 100 | 62 - 122 | |
| Trichlorofluoromethane | 50.0 | 54.0 | 108 | 74 - 165 | |
| 1,2,3-Trichloropropane | 50.0 | 51.1 | 102 | 60 - 147 | |
| p-Isopropyltoluene | 50.0 | 50.9 | 102 | 58 - 123 | |
| Vinyl acetate | 100 | 102 | 102 | 47 - 150 | |
| Vinyl chloride | 50.0 | 40.9 | 82 | 59 - 136 | |
| Methyl tert-butyl ether | 100 | 94.4 | 94 | 70 - 130 | |
| Naphthalene | 50.0 | 43.1 | 86 | 58 - 143 | |
| N-Propylbenzene | 50.0 | 48.5 | 97 | 53 - 125 | |
| 1,2,3-Trichlorobenzene | 50.0 | 45.6 | 91 | 38 - 130 | |
| 1,2,4-Trichlorobenzene | 50.0 | 46.6 | 93 | 48 - 131 | |
| Freon 113 | 50.0 | 44.1 | 88 | 70 - 130 | |
| 1,2,4-Trimethylbenzene | 50.0 | 50.3 | 101 | 53 - 142 | |
| 1,3,5-Trimethylbenzene | 50.0 | 50.4 | 101 | 50 - 127 | |
| o-Xylene | 50.0 | 47.3 | 95 | 76 - 122 | |
| m-Xylene & p-Xylene | 100 | 96.5 | 97 | 74 - 123 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 95 | 77 - 120 |
| Dibromofluoromethane | 91 | 75 - 123 |
| Toluene-d8 (Surr) | 102 | 79 - 122 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57681/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1149
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq610.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acetone | 50 | U | 3.0 | 50 |
| Acetonitrile | 200 | U | 28 | 200 |
| Acrolein | 100 | U | 11 | 100 |
| Bromobenzene | 5.0 | U | 0.93 | 5.0 |
| Acrylonitrile | 100 | U | 16 | 100 |
| Bromochloromethane | 5.0 | U | 0.95 | 5.0 |
| Benzene | 5.0 | U | 0.86 | 5.0 |
| Dichlorobromomethane | 5.0 | U | 1.0 | 5.0 |
| Bromoform | 5.0 | U | 2.2 | 5.0 |
| Methyl bromide | 5.0 | U | 1.3 | 5.0 |
| Methyl Ethyl Ketone | 25 | U | 4.0 | 25 |
| n-Butylbenzene | 5.0 | U | 0.99 | 5.0 |
| Carbon disulfide | 5.0 | U | 1.0 | 5.0 |
| sec-Butylbenzene | 5.0 | U | 1.1 | 5.0 |
| Carbon tetrachloride | 5.0 | U | 0.89 | 5.0 |
| tert-Butylbenzene | 5.0 | U | 1.2 | 5.0 |
| Chlorobenzene | 5.0 | U | 0.69 | 5.0 |
| Chloroethane | 5.0 | U | 1.5 | 5.0 |
| Chloroform | 5.0 | U | 0.88 | 5.0 |
| Methyl chloride | 5.0 | U | 0.70 | 5.0 |
| Allyl chloride | 5.0 | U | 1.2 | 5.0 |
| Chlorodibromomethane | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 4.6 | 10 |
| 1,2-Dibromoethane | 5.0 | U | 1.4 | 5.0 |
| 2-Chlorotoluene | 5.0 | U | 1.4 | 5.0 |
| Methylene bromide | 5.0 | U | 1.3 | 5.0 |
| 4-Chlorotoluene | 5.0 | U | 0.78 | 5.0 |
| trans-1,4-Dichloro-2-butene | 10 | U | 4.0 | 10 |
| Dichlorodifluoromethane | 5.0 | U | 2.5 | 5.0 |
| 1,1-Dichloroethane | 5.0 | U | 1.0 | 5.0 |
| 1,2-Dichloroethane | 5.0 | U | 1.2 | 5.0 |
| 1,1-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| o-Dichlorobenzene | 5.0 | U | 1.8 | 5.0 |
| trans-1,2-Dichloroethylene | 5.0 | U | 1.1 | 5.0 |
| 1,2-Dichloropropane | 5.0 | U | 1.3 | 5.0 |
| m-Dichlorobenzene | 5.0 | U | 1.1 | 5.0 |
| cis-1,3-Dichloropropene | 5.0 | U | 0.91 | 5.0 |
| p-Dichlorobenzene | 5.0 | U | 1.4 | 5.0 |
| trans-1,3-Dichloropropene | 5.0 | U | 1.1 | 5.0 |
| Ethylbenzene | 5.0 | U | 0.87 | 5.0 |
| Ethyl methacrylate | 5.0 | U | 0.77 | 5.0 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: MB 680-57681/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1149
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq610.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| 2-Hexanone | 25 | U | 5.4 | 25 |
| cis-Dichloroethylene | 5.0 | U | 0.88 | 5.0 |
| Methyl iodide | 5.0 | U | 1.0 | 5.0 |
| Methacrylonitrile | 100 | U | 16 | 100 |
| Methylene Chloride | 5.0 | U | 1.6 | 5.0 |
| Methyl methacrylate | 5.0 | U | 1.7 | 5.0 |
| 1,3-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 5.8 | 25 |
| 2,2-Dichloropropane | 5.0 | U | 1.2 | 5.0 |
| Pentachloroethane | 25 | U | 4.6 | 25 |
| 1,1-Dichloropropene | 5.0 | U | 1.4 | 5.0 |
| Propionitrile | 100 | U | 23 | 100 |
| Styrene | 5.0 | U | 0.85 | 5.0 |
| 1,1,1,2-Tetrachloroethane | 5.0 | U | 1.4 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 1.0 | 5.0 |
| Tetrachloroethylene | 5.0 | U | 1.0 | 5.0 |
| Hexachlorobutadiene | 5.0 | U | 1.6 | 5.0 |
| Toluene | 5.0 | U | 1.0 | 5.0 |
| 1,1,1-Trichloroethane | 5.0 | U | 0.85 | 5.0 |
| 1,1,2-Trichloroethane | 5.0 | U | 1.2 | 5.0 |
| Trichloroethylene | 5.0 | U | 1.2 | 5.0 |
| Isopropylbenzene | 5.0 | U | 0.99 | 5.0 |
| Trichlorofluoromethane | 5.0 | U | 1.4 | 5.0 |
| 1,2,3-Trichloropropane | 5.0 | U | 2.7 | 5.0 |
| p-Isopropyltoluene | 5.0 | U | 1.2 | 5.0 |
| Vinyl acetate | 10 | U | 1.9 | 10 |
| Vinyl chloride | 5.0 | U | 0.92 | 5.0 |
| Methyl tert-butyl ether | 50 | U | 1.8 | 50 |
| Naphthalene | 5.0 | U | 3.4 | 5.0 |
| N-Propylbenzene | 5.0 | U | 1.2 | 5.0 |
| 1,2,3-Trichlorobenzene | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 2.2 | 5.0 |
| Freon 113 | 5.0 | U | 1.0 | 5.0 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 1.0 | 5.0 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 1.3 | 5.0 |
| o-Xylene | 5.0 | U | 1.4 | 5.0 |
| m-Xylene & p-Xylene | 10 | U | 2.0 | 10 |
| 1-Chlorohexane | 5.0 | U | 0.78 | 5.0 |
| Hexane | 5.0 | U | 2.3 | 5.0 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 105 | 68 - 121 |
| Dibromofluoromethane | 105 | 66 - 127 |
| Toluene-d8 (Surr) | 98 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57681/15
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1048
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq608.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acetone | 100 | 103 | 103 | 28 - 143 | |
| Bromobenzene | 50.0 | 49.5 | 99 | 77 - 147 | |
| Bromochloromethane | 50.0 | 45.0 | 90 | 63 - 136 | |
| Benzene | 50.0 | 35.9 | 72 | 79 - 118 | * |
| Dichlorobromomethane | 50.0 | 48.7 | 97 | 74 - 128 | |
| Bromoform | 50.0 | 53.2 | 106 | 62 - 137 | |
| Methyl bromide | 50.0 | 43.7 | 87 | 26 - 160 | |
| Methyl Ethyl Ketone | 100 | 104 | 104 | 30 - 149 | |
| n-Butylbenzene | 50.0 | 51.1 | 102 | 59 - 120 | |
| Carbon disulfide | 50.0 | 37.7 | 75 | 32 - 157 | |
| sec-Butylbenzene | 50.0 | 48.6 | 97 | 60 - 128 | |
| Carbon tetrachloride | 50.0 | 49.4 | 99 | 62 - 140 | |
| tert-Butylbenzene | 50.0 | 48.6 | 97 | 62 - 140 | |
| Chlorobenzene | 50.0 | 48.7 | 97 | 81 - 120 | |
| Chloroethane | 50.0 | 44.3 | 89 | 20 - 140 | |
| Chloroform | 50.0 | 45.8 | 92 | 77 - 125 | |
| Methyl chloride | 50.0 | 47.7 | 95 | 42 - 140 | |
| Chlorodibromomethane | 50.0 | 50.9 | 102 | 67 - 135 | |
| 1,2-Dibromo-3-Chloropropane | 50.0 | 54.9 | 110 | 21 - 180 | |
| 1,2-Dibromoethane | 50.0 | 51.5 | 103 | 76 - 130 | |
| 2-Chlorotoluene | 50.0 | 51.1 | 102 | 49 - 219 | |
| Methylene bromide | 50.0 | 49.1 | 98 | 71 - 134 | |
| 4-Chlorotoluene | 50.0 | 46.8 | 94 | 45 - 218 | |
| Dichlorodifluoromethane | 50.0 | 43.2 | 86 | 70 - 130 | |
| 1,1-Dichloroethane | 50.0 | 44.9 | 90 | 43 - 157 | |
| 1,2-Dichloroethane | 50.0 | 49.8 | 100 | 65 - 133 | |
| 1,1-Dichloroethylene | 50.0 | 39.9 | 80 | 52 - 143 | |
| o-Dichlorobenzene | 50.0 | 48.7 | 97 | 81 - 122 | |
| trans-1,2-Dichloroethylene | 50.0 | 40.5 | 81 | 35 - 154 | |
| 1,2-Dichloropropane | 50.0 | 48.3 | 97 | 77 - 118 | |
| m-Dichlorobenzene | 50.0 | 47.7 | 95 | 84 - 120 | |
| cis-1,3-Dichloropropene | 50.0 | 49.6 | 99 | 71 - 123 | |
| p-Dichlorobenzene | 50.0 | 49.2 | 98 | 67 - 133 | |
| trans-1,3-Dichloropropene | 50.0 | 51.2 | 102 | 75 - 126 | |
| Ethylbenzene | 50.0 | 49.6 | 99 | 82 - 118 | |
| 2-Hexanone | 100 | 110 | 110 | 30 - 148 | |
| cis-Dichloroethylene | 50.0 | 44.9 | 90 | 69 - 131 | |
| Methylene Chloride | 50.0 | 45.0 | 90 | 54 - 150 | |
| 1,3-Dichloropropane | 50.0 | 49.6 | 99 | 73 - 146 | |
| 4-Methyl-2-pentanone (MIBK) | 100 | 103 | 103 | 29 - 150 | |
| 2,2-Dichloropropane | 50.0 | 43.5 | 87 | 28 - 187 | |
| 1,1-Dichloropropene | 50.0 | 59.8 | 120 | 76 - 126 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57681**

**Method: 8260B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57681/15
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1048
Date Prepared: N/A

Analysis Batch: 680-57681
Prep Batch: N/A
Units: ug/Kg

Instrument ID: GC/MS Volatiles - L
Lab File ID: lq608.d
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 g

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Styrene | 50.0 | 48.4 | 97 | 80 - 118 | |
| 1,1,1,2-Tetrachloroethane | 50.0 | 52.6 | 105 | 70 - 130 | |
| 1,1,2,2-Tetrachloroethane | 50.0 | 49.8 | 100 | 64 - 130 | |
| Tetrachloroethylene | 50.0 | 49.5 | 99 | 79 - 132 | |
| Hexachlorobutadiene | 50.0 | 50.9 | 102 | 29 - 135 | |
| Toluene | 50.0 | 49.5 | 99 | 80 - 118 | |
| 1,1,1-Trichloroethane | 50.0 | 47.1 | 94 | 58 - 139 | |
| 1,1,2-Trichloroethane | 50.0 | 50.5 | 101 | 76 - 120 | |
| Trichloroethylene | 50.0 | 47.6 | 95 | 80 - 122 | |
| Isopropylbenzene | 50.0 | 49.0 | 98 | 75 - 134 | |
| Trichlorofluoromethane | 50.0 | 47.3 | 95 | 38 - 146 | |
| 1,2,3-Trichloropropane | 50.0 | 52.0 | 104 | 33 - 210 | |
| p-Isopropyltoluene | 50.0 | 50.2 | 100 | 39 - 141 | |
| Vinyl acetate | 100 | 102 | 102 | 1 - 184 | |
| Vinyl chloride | 50.0 | 46.7 | 93 | 34 - 154 | |
| Methyl tert-butyl ether | 100 | 89.0 | 89 | 37 - 168 | |
| Naphthalene | 50.0 | 48.9 | 98 | 42 - 250 | |
| N-Propylbenzene | 50.0 | 48.7 | 97 | 67 - 134 | |
| 1,2,3-Trichlorobenzene | 50.0 | 52.3 | 105 | 29 - 169 | |
| 1,2,4-Trichlorobenzene | 50.0 | 52.7 | 105 | 49 - 152 | |
| Freon 113 | 50.0 | 33.0 | 66 | 70 - 130 | * |
| 1,2,4-Trimethylbenzene | 50.0 | 49.4 | 99 | 74 - 133 | |
| 1,3,5-Trimethylbenzene | 50.0 | 48.2 | 96 | 72 - 124 | |
| o-Xylene | 50.0 | 49.2 | 98 | 74 - 122 | |
| m-Xylene & p-Xylene | 100 | 98.3 | 98 | 74 - 121 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 4-Bromofluorobenzene | 98 | 68 - 121 |
| Dibromofluoromethane | 97 | 66 - 127 |
| Toluene-d8 (Surr) | 104 | 65 - 128 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57702/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1647
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4037.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Acenaphthene | 330 | U | 19 | 330 |
| Acenaphthylene | 330 | U | 17 | 330 |
| Anthracene | 330 | U | 23 | 330 |
| Benzidine | 2700 | U | 83 | 2700 |
| Benzo[a]anthracene | 330 | U | 31 | 330 |
| Benzo[a]pyrene | 330 | U | 19 | 330 |
| Benzo[b]fluoranthene | 330 | U | 26 | 330 |
| Benzo[g,h,i]perylene | 330 | U | 23 | 330 |
| Benzoic acid | 1700 | U | 170 | 1700 |
| Benzo[k]fluoranthene | 330 | U | 36 | 330 |
| Benzyl alcohol | 330 | U | 38 | 330 |
| Bis(2-chloroethoxy)methane | 330 | U | 24 | 330 |
| Bis(2-chloroethyl)ether | 330 | U | 28 | 330 |
| bis(chloroisopropyl) ether | 330 | U | 35 | 330 |
| Bis(2-ethylhexyl) phthalate | 330 | U | 38 | 330 |
| 4-Bromophenyl phenyl ether | 330 | U | 31 | 330 |
| Butyl benzyl phthalate | 330 | U | 27 | 330 |
| 4-Chloroaniline | 660 | U | 26 | 660 |
| 4-Chloro-3-methylphenol | 330 | U | 34 | 330 |
| 2-Chloronaphthalene | 330 | U | 24 | 330 |
| 2-Chlorophenol | 330 | U | 27 | 330 |
| 4-Chlorophenyl phenyl ether | 330 | U | 19 | 330 |
| Chrysene | 330 | U | 25 | 330 |
| Dibenz(a,h)anthracene | 330 | U | 24 | 330 |
| Dibenzofuran | 330 | U | 19 | 330 |
| 1,2-Dichlorobenzene | 330 | U | 23 | 330 |
| 1,3-Dichlorobenzene | 330 | U | 26 | 330 |
| 1,4-Dichlorobenzene | 330 | U | 22 | 330 |
| 3,3'-Dichlorobenzidine | 660 | U | 30 | 660 |
| 2,4-Dichlorophenol | 330 | U | 23 | 330 |
| Diethyl phthalate | 330 | U | 22 | 330 |
| 2,4-Dimethylphenol | 330 | U | 35 | 330 |
| Dimethyl phthalate | 330 | U | 19 | 330 |
| Di-n-butyl phthalate | 330 | U | 28 | 330 |
| 4,6-Dinitro-o-cresol | 1700 | U | 200 | 1700 |
| 2,4-Dinitrophenol | 1700 | U | 170 | 1700 |
| 2,4-Dinitrotoluene | 330 | U | 19 | 330 |
| 2,6-Dinitrotoluene | 330 | U | 33 | 330 |
| Di-n-octyl phthalate | 330 | U | 31 | 330 |
| Fluoranthene | 330 | U | 26 | 330 |
| Fluorene | 330 | U | 22 | 330 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: MB 680-57702/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1647
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4037.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Hexachlorobenzene | 330 | U | 26 | 330 |
| Hexachlorobutadiene | 330 | U | 20 | 330 |
| Hexachlorocyclopentadiene | 330 | U | 83 | 330 |
| Hexachloroethane | 330 | U | 20 | 330 |
| Indeno[1,2,3-cd]pyrene | 330 | U | 26 | 330 |
| Isophorone | 330 | U | 22 | 330 |
| 2-Methylnaphthalene | 330 | U | 24 | 330 |
| 2-Methylphenol | 330 | U | 30 | 330 |
| 3 & 4 Methylphenol | 330 | U | 29 | 330 |
| Naphthalene | 330 | U | 19 | 330 |
| 2-Nitroaniline | 1700 | U | 23 | 1700 |
| 3-Nitroaniline | 1700 | U | 33 | 1700 |
| 4-Nitroaniline | 1700 | U | 17 | 1700 |
| Nitrobenzene | 330 | U | 35 | 330 |
| 2-Nitrophenol | 330 | U | 20 | 330 |
| 4-Nitrophenol | 1700 | U | 210 | 1700 |
| N-Nitrosodi-n-propylamine | 330 | U | 28 | 330 |
| N-Nitrosodiphenylamine | 330 | U | 23 | 330 |
| Pentachlorophenol | 1700 | U | 83 | 1700 |
| Phenanthrene | 330 | U | 29 | 330 |
| Phenol | 330 | U | 30 | 330 |
| Pyrene | 330 | U | 20 | 330 |
| 1,2,4-Trichlorobenzene | 330 | U | 21 | 330 |
| 2,4,5-Trichlorophenol | 330 | U | 32 | 330 |
| 2,4,6-Trichlorophenol | 330 | U | 20 | 330 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 82 | 38 - 104 |
| 2-Fluorophenol | 85 | 36 - 101 |
| Nitrobenzene-d5 | 78 | 33 - 94 |
| Phenol-d5 | 89 | 38 - 102 |
| Terphenyl-d14 | 99 | 40 - 129 |
| 2,4,6-Tribromophenol | 94 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57702/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1829
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4041.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Acenaphthene | 3330 | 3100 | 93 | 36 - 108 | |
| Acenaphthylene | 3330 | 3160 | 95 | 41 - 112 | |
| Anthracene | 3330 | 3050 | 92 | 46 - 115 | |
| Benzidine | 3330 | 687 | 21 | 1 - 95 | J |
| Benzo[a]anthracene | 3330 | 3230 | 97 | 46 - 116 | |
| Benzo[a]pyrene | 3330 | 3580 | 108 | 37 - 120 | |
| Benzo[b]fluoranthene | 3330 | 3260 | 98 | 35 - 122 | |
| Benzo[g,h,i]perylene | 3330 | 2950 | 89 | 41 - 122 | |
| Benzoic acid | 3330 | 2410 | 72 | 10 - 94 | |
| Benzo[k]fluoranthene | 3330 | 3640 | 109 | 36 - 124 | |
| Benzyl alcohol | 3330 | 3030 | 91 | 30 - 98 | |
| Bis(2-chloroethoxy)methane | 3330 | 2950 | 89 | 38 - 106 | |
| Bis(2-chloroethyl)ether | 3330 | 2850 | 86 | 30 - 98 | |
| bis(chloroisopropyl) ether | 3330 | 2730 | 82 | 16 - 116 | |
| Bis(2-ethylhexyl) phthalate | 3330 | 3220 | 97 | 25 - 134 | |
| 4-Bromophenyl phenyl ether | 3330 | 2700 | 81 | 38 - 106 | |
| Butyl benzyl phthalate | 3330 | 3340 | 100 | 43 - 127 | |
| 4-Chloroaniline | 3330 | 2040 | 61 | 7 - 103 | |
| 4-Chloro-3-methylphenol | 3330 | 3310 | 99 | 39 - 113 | |
| 2-Chloronaphthalene | 3330 | 2880 | 86 | 41 - 110 | |
| 2-Chlorophenol | 3330 | 3010 | 90 | 36 - 99 | |
| 4-Chlorophenyl phenyl ether | 3330 | 3140 | 94 | 42 - 111 | |
| Chrysene | 3330 | 3170 | 95 | 46 - 118 | |
| Dibenz(a,h)anthracene | 3330 | 3000 | 90 | 41 - 124 | |
| Dibenzofuran | 3330 | 3040 | 91 | 44 - 108 | |
| 1,2-Dichlorobenzene | 3330 | 2910 | 87 | 35 - 93 | |
| 1,3-Dichlorobenzene | 3330 | 2750 | 82 | 34 - 90 | |
| 1,4-Dichlorobenzene | 3330 | 2730 | 82 | 32 - 90 | |
| 3,3'-Dichlorobenzidine | 3330 | 1880 | 56 | 1 - 118 | |
| 2,4-Dichlorophenol | 3330 | 3140 | 94 | 43 - 108 | |
| Diethyl phthalate | 3330 | 3330 | 100 | 41 - 118 | |
| 2,4-Dimethylphenol | 3330 | 3140 | 94 | 40 - 112 | |
| Dimethyl phthalate | 3330 | 3150 | 95 | 43 - 114 | |
| Di-n-butyl phthalate | 3330 | 2580 | 77 | 35 - 93 | |
| 4,6-Dinitro-o-cresol | 3330 | 3400 | 102 | 11 - 142 | |
| 2,4-Dinitrophenol | 3330 | 3200 | 96 | 1 - 131 | |
| 2,4-Dinitrotoluene | 3330 | 3510 | 105 | 32 - 128 | |
| 2,6-Dinitrotoluene | 3330 | 3300 | 99 | 38 - 128 | |
| Di-n-octyl phthalate | 3330 | 3130 | 94 | 43 - 129 | |
| Fluoranthene | 3330 | 3070 | 92 | 41 - 124 | |
| Fluorene | 3330 | 3230 | 97 | 37 - 113 | |
| Hexachlorobenzene | 3330 | 3050 | 91 | 46 - 115 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Lab Control Spike - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57702/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1829
Date Prepared: 10/18/2006 1245

Analysis Batch: 680-57867
Prep Batch: 680-57702
Units: ug/Kg

Instrument ID: GC/MS SemiVolatiles - N
Lab File ID: n4041.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Hexachlorobutadiene | 3330 | 3280 | 98 | 42 - 105 | |
| Hexachlorocyclopentadiene | 3330 | 3480 | 104 | 20 - 109 | |
| Hexachloroethane | 3330 | 2890 | 87 | 31 - 88 | |
| Indeno[1,2,3-cd]pyrene | 3330 | 2610 | 78 | 36 - 133 | |
| Isophorone | 3330 | 3110 | 93 | 37 - 106 | |
| 2-Methylnaphthalene | 3330 | 2970 | 89 | 39 - 104 | |
| 2-Methylphenol | 3330 | 3110 | 93 | 38 - 107 | |
| 3 & 4 Methylphenol | 3330 | 3010 | 90 | 37 - 106 | |
| Naphthalene | 3330 | 2930 | 88 | 34 - 97 | |
| 2-Nitroaniline | 3330 | 3190 | 96 | 38 - 124 | |
| 3-Nitroaniline | 3330 | 2360 | 71 | 19 - 118 | |
| 4-Nitroaniline | 3330 | 2910 | 87 | 32 - 130 | |
| Nitrobenzene | 3330 | 2950 | 89 | 33 - 106 | |
| 2-Nitrophenol | 3330 | 2850 | 86 | 38 - 104 | |
| 4-Nitrophenol | 3330 | 3430 | 103 | 21 - 132 | |
| N-Nitrosodi-n-propylamine | 3330 | 3190 | 96 | 24 - 108 | |
| N-Nitrosodiphenylamine | 3330 | 3090 | 93 | 16 - 113 | |
| Pentachlorophenol | 3330 | 2910 | 87 | 27 - 116 | |
| Phenanthrene | 3330 | 3000 | 90 | 47 - 114 | |
| Phenol | 3330 | 3070 | 92 | 34 - 98 | |
| Pyrene | 3330 | 3330 | 100 | 36 - 128 | |
| 1,2,4-Trichlorobenzene | 3330 | 2920 | 88 | 36 - 98 | |
| 2,4,5-Trichlorophenol | 3330 | 3020 | 91 | 46 - 116 | |
| 2,4,6-Trichlorophenol | 3330 | 3090 | 93 | 44 - 113 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| 2-Fluorobiphenyl | 92 | 38 - 104 |
| 2-Fluorophenol | 94 | 36 - 101 |
| Nitrobenzene-d5 | 92 | 33 - 94 |
| Phenol-d5 | 96 | 38 - 102 |
| Terphenyl-d14 | 100 | 40 - 129 |
| 2,4,6-Tribromophenol | 108 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 680-21196-3 | Analysis Batch: 680-57867 | Instrument ID: GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: 680-57702 | Lab File ID: n4042.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.07 g |
| Date Analyzed: | 10/19/2006 1854 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | Injection Volume: |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 680-21196-3 | Analysis Batch: 680-57867 | Instrument ID: GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: 680-57702 | Lab File ID: n4043.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.00 g |
| Date Analyzed: | 10/19/2006 1919 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | Injection Volume: |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Acenaphthene | 67 | 66 | 36 - 108 | 1 | 50 | | |
| Acenaphthylene | 69 | 69 | 41 - 112 | 1 | 50 | | |
| Anthracene | 69 | 67 | 46 - 115 | 2 | 50 | | |
| Benzidine | 50 | 44 | 1 - 95 | 13 | 50 | J | J |
| Benzo[a]anthracene | 73 | 69 | 46 - 116 | 5 | 50 | | |
| Benzo[a]pyrene | 80 | 75 | 37 - 120 | 6 | 50 | | |
| Benzo[b]fluoranthene | 77 | 74 | 35 - 122 | 4 | 50 | | |
| Benzo[g,h,i]perylene | 67 | 65 | 41 - 122 | 4 | 50 | | |
| Benzoic acid | 59 | 48 | 10 - 94 | 19 | 50 | | J |
| Benzo[k]fluoranthene | 76 | 84 | 36 - 124 | 10 | 50 | | |
| Benzyl alcohol | 65 | 62 | 30 - 98 | 4 | 50 | | |
| Bis(2-chloroethoxy)methane | 65 | 63 | 38 - 106 | 3 | 50 | | |
| Bis(2-chloroethyl)ether | 58 | 57 | 30 - 98 | 1 | 50 | | |
| bis(chloroisopropyl) ether | 56 | 55 | 16 - 116 | 2 | 50 | | |
| Bis(2-ethylhexyl) phthalate | 73 | 66 | 25 - 134 | 11 | 50 | | |
| 4-Bromophenyl phenyl ether | 60 | 56 | 38 - 106 | 6 | 50 | | |
| Butyl benzyl phthalate | 77 | 70 | 43 - 127 | 9 | 50 | | |
| 4-Chloroaniline | 64 | 62 | 7 - 103 | 3 | 50 | | |
| 4-Chloro-3-methylphenol | 74 | 68 | 39 - 113 | 9 | 50 | | |
| 2-Chloronaphthalene | 61 | 62 | 41 - 110 | 1 | 50 | | |
| 2-Chlorophenol | 63 | 61 | 36 - 99 | 3 | 50 | | |
| 4-Chlorophenyl phenyl ether | 70 | 68 | 42 - 111 | 3 | 50 | | |
| Chrysene | 71 | 71 | 46 - 118 | 0 | 50 | | |
| Dibenz(a,h)anthracene | 69 | 64 | 41 - 124 | 8 | 50 | | |
| Dibenzofuran | 68 | 66 | 44 - 108 | 2 | 50 | | |
| 1,2-Dichlorobenzene | 55 | 57 | 35 - 93 | 3 | 50 | | |
| 1,3-Dichlorobenzene | 52 | 53 | 34 - 90 | 3 | 50 | | |
| 1,4-Dichlorobenzene | 53 | 51 | 32 - 90 | 3 | 50 | | |
| 3,3'-Dichlorobenzidine | 66 | 62 | 1 - 118 | 6 | 50 | | |
| 2,4-Dichlorophenol | 70 | 65 | 43 - 108 | 8 | 50 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21196-3 | Analysis Batch: | 680-57867 | Instrument ID: | GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: | 680-57702 | Lab File ID: | n4042.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.07 g |
| Date Analyzed: | 10/19/2006 1854 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21196-3 | Analysis Batch: | 680-57867 | Instrument ID: | GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: | 680-57702 | Lab File ID: | n4043.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/19/2006 1919 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diethyl phthalate | 77 | 72 | 41 - 118 | 6 | 50 | | |
| 2,4-Dimethylphenol | 70 | 66 | 40 - 112 | 6 | 50 | | |
| Dimethyl phthalate | 73 | 69 | 43 - 114 | 5 | 50 | | |
| Di-n-butyl phthalate | 58 | 55 | 35 - 93 | 5 | 50 | | |
| 4,6-Dinitro-o-cresol | 83 | 73 | 11 - 142 | 12 | 50 | | |
| 2,4-Dinitrophenol | 85 | 65 | 1 - 131 | 26 | 50 | | |
| 2,4-Dinitrotoluene | 80 | 74 | 32 - 128 | 7 | 50 | | |
| 2,6-Dinitrotoluene | 77 | 73 | 38 - 128 | 6 | 50 | | |
| Di-n-octyl phthalate | 71 | 65 | 43 - 129 | 9 | 50 | | |
| Fluoranthene | 68 | 66 | 41 - 124 | 3 | 50 | | |
| Fluorene | 70 | 69 | 37 - 113 | 1 | 50 | | |
| Hexachlorobenzene | 67 | 66 | 46 - 115 | 1 | 50 | | |
| Hexachlorobutadiene | 64 | 67 | 42 - 105 | 5 | 50 | | |
| Hexachlorocyclopentadiene | 69 | 73 | 20 - 109 | 5 | 50 | | |
| Hexachloroethane | 53 | 55 | 31 - 88 | 3 | 50 | | |
| Indeno[1,2,3-cd]pyrene | 63 | 60 | 36 - 133 | 4 | 50 | | |
| Isophorone | 68 | 65 | 37 - 106 | 4 | 50 | | |
| 2-Methylnaphthalene | 64 | 62 | 39 - 104 | 4 | 50 | | |
| 2-Methylphenol | 68 | 63 | 38 - 107 | 7 | 50 | | |
| 3 & 4 Methylphenol | 67 | 63 | 37 - 106 | 7 | 50 | | |
| Naphthalene | 61 | 61 | 34 - 97 | 0 | 50 | | |
| 2-Nitroaniline | 74 | 70 | 38 - 124 | 5 | 50 | | |
| 3-Nitroaniline | 70 | 66 | 19 - 118 | 6 | 50 | | |
| 4-Nitroaniline | 71 | 66 | 32 - 130 | 7 | 50 | | |
| Nitrobenzene | 61 | 61 | 33 - 106 | 1 | 50 | | |
| 2-Nitrophenol | 60 | 59 | 38 - 104 | 2 | 50 | | |
| 4-Nitrophenol | 76 | 68 | 21 - 132 | 12 | 50 | | |
| N-Nitrosodi-n-propylamine | 69 | 66 | 24 - 108 | 5 | 50 | | |
| N-Nitrosodiphenylamine | 69 | 66 | 16 - 113 | 3 | 50 | | |
| Pentachlorophenol | 63 | 57 | 27 - 116 | 9 | 50 | | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

| | | | | | |
|---|---|---|---|---|---|
| MS Lab Sample ID: | 680-21196-3 | Analysis Batch: | 680-57867 | Instrument ID: | GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: | 680-57702 | Lab File ID: | n4042.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.07 g |
| Date Analyzed: | 10/19/2006 1854 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| | | | | | |
|---|---|---|---|---|---|
| MSD Lab Sample ID: | 680-21196-3 | Analysis Batch: | 680-57867 | Instrument ID: | GC/MS SemiVolatiles - N |
| Client Matrix: | Solid | Prep Batch: | 680-57702 | Lab File ID: | n4043.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 30.00 g |
| Date Analyzed: | 10/19/2006 1919 | | | Final Weight/Volume: | 1.0 mL |
| Date Prepared: | 10/18/2006 1245 | | | Injection Volume: | |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Phenanthrene | 67 | 64 | 47 - 114 | 4 | 50 | | |
| Phenol | 68 | 64 | 34 - 98 | 6 | 50 | | |
| Pyrene | 75 | 69 | 36 - 128 | 8 | 50 | | |
| 1,2,4-Trichlorobenzene | 59 | 59 | 36 - 98 | 0 | 50 | | |
| 2,4,5-Trichlorophenol | 67 | 65 | 46 - 116 | 3 | 50 | | |
| 2,4,6-Trichlorophenol | 68 | 67 | 44 - 113 | 2 | 50 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| 2-Fluorobiphenyl | 67 | 65 | 38 - 104 |
| 2-Fluorophenol | 64 | 61 | 36 - 101 |
| Nitrobenzene-d5 | 63 | 62 | 33 - 94 |
| Phenol-d5 | 69 | 65 | 38 - 102 |
| Terphenyl-d14 | 75 | 68 | 40 - 129 |
| 2,4,6-Tribromophenol | 82 | 76 | 27 - 124 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# Quality Control Results

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21196-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1854
Date Prepared: 10/18/2006 1245

Units: ug/Kg

MSD Lab Sample ID: 680-21196-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1919
Date Prepared: 10/18/2006 1245

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | | MSD Result/Qual | |
|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.0 | U | 4400 | 4410 | 2960 | | 2920 | |
| Acenaphthylene | 0.0 | U | 4400 | 4410 | 3050 | | 3020 | |
| Anthracene | 0.0 | U | 4400 | 4410 | 3020 | | 2950 | |
| Benzidine | 0.0 | U | 4400 | 4410 | 2190 | J | 1920 | J |
| Benzo[a]anthracene | 0.0 | U | 4400 | 4410 | 3220 | | 3050 | |
| Benzo[a]pyrene | 0.0 | U | 4400 | 4410 | 3530 | | 3320 | |
| Benzo[b]fluoranthene | 0.0 | U | 4400 | 4410 | 3390 | | 3250 | |
| Benzo[g,h,i]perylene | 0.0 | U | 4400 | 4410 | 2960 | | 2850 | |
| Benzoic acid | 0.0 | U | 4400 | 4410 | 2580 | | 2130 | J |
| Benzo[k]fluoranthene | 0.0 | U | 4400 | 4410 | 3340 | | 3690 | |
| Benzyl alcohol | 0.0 | U | 4400 | 4410 | 2860 | | 2750 | |
| Bis(2-chloroethoxy)methane | 0.0 | U | 4400 | 4410 | 2860 | | 2760 | |
| Bis(2-chloroethyl)ether | 0.0 | U | 4400 | 4410 | 2560 | | 2530 | |
| bis(chloroisopropyl) ether | 0.0 | U | 4400 | 4410 | 2480 | | 2440 | |
| Bis(2-ethylhexyl) phthalate | 0.0 | U | 4400 | 4410 | 3230 | | 2910 | |
| 4-Bromophenyl phenyl ether | 0.0 | U | 4400 | 4410 | 2630 | | 2480 | |
| Butyl benzyl phthalate | 0.0 | U | 4400 | 4410 | 3380 | | 3100 | |
| 4-Chloroaniline | 0.0 | U | 4400 | 4410 | 2800 | | 2720 | |
| 4-Chloro-3-methylphenol | 0.0 | U | 4400 | 4410 | 3270 | | 3000 | |
| 2-Chloronaphthalene | 0.0 | U | 4400 | 4410 | 2700 | | 2730 | |
| 2-Chlorophenol | 0.0 | U | 4400 | 4410 | 2780 | | 2700 | |
| 4-Chlorophenyl phenyl ether | 0.0 | U | 4400 | 4410 | 3090 | | 3000 | |
| Chrysene | 0.0 | U | 4400 | 4410 | 3130 | | 3130 | |
| Dibenz(a,h)anthracene | 0.0 | U | 4400 | 4410 | 3030 | | 2800 | |
| Dibenzofuran | 0.0 | U | 4400 | 4410 | 2970 | | 2910 | |
| 1,2-Dichlorobenzene | 0.0 | U | 4400 | 4410 | 2430 | | 2510 | |
| 1,3-Dichlorobenzene | 0.0 | U | 4400 | 4410 | 2280 | | 2340 | |
| 1,4-Dichlorobenzene | 0.0 | U | 4400 | 4410 | 2320 | | 2260 | |
| 3,3'-Dichlorobenzidine | 0.0 | U | 4400 | 4410 | 2910 | | 2740 | |
| 2,4-Dichlorophenol | 0.0 | U | 4400 | 4410 | 3090 | | 2850 | |
| Diethyl phthalate | 0.0 | U | 4400 | 4410 | 3370 | | 3180 | |
| 2,4-Dimethylphenol | 0.0 | U | 4400 | 4410 | 3080 | | 2890 | |
| Dimethyl phthalate | 0.0 | U | 4400 | 4410 | 3200 | | 3060 | |
| Di-n-butyl phthalate | 0.0 | U | 4400 | 4410 | 2560 | | 2430 | |
| 4,6-Dinitro-o-cresol | 0.0 | U | 4400 | 4410 | 3660 | | 3230 | |
| 2,4-Dinitrophenol | 0.0 | U | 4400 | 4410 | 3720 | | 2860 | |
| 2,4-Dinitrotoluene | 0.0 | U | 4400 | 4410 | 3520 | | 3270 | |
| 2,6-Dinitrotoluene | 0.0 | U | 4400 | 4410 | 3400 | | 3200 | |
| Di-n-octyl phthalate | 0.0 | U | 4400 | 4410 | 3110 | | 2850 | |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57702**

**Method: 8270C**
**Preparation: 3550B**

MS Lab Sample ID: 680-21196-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1854
Date Prepared: 10/18/2006 1245

Units: ug/Kg

MSD Lab Sample ID: 680-21196-3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/19/2006 1919
Date Prepared: 10/18/2006 1245

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|---|---|---|---|---|---|---|
| Fluoranthene | 0.0 | U | 4400 | 4410 | 3000 | 2920 |
| Fluorene | 0.0 | U | 4400 | 4410 | 3100 | 3060 |
| Hexachlorobenzene | 0.0 | U | 4400 | 4410 | 2940 | 2910 |
| Hexachlorobutadiene | 0.0 | U | 4400 | 4410 | 2820 | 2970 |
| Hexachlorocyclopentadiene | 0.0 | U | 4400 | 4410 | 3040 | 3200 |
| Hexachloroethane | 0.0 | U | 4400 | 4410 | 2340 | 2410 |
| Indeno[1,2,3-cd]pyrene | 0.0 | U | 4400 | 4410 | 2750 | 2640 |
| Isophorone | 0.0 | U | 4400 | 4410 | 2970 | 2860 |
| 2-Methylnaphthalene | 0.0 | U | 4400 | 4410 | 2820 | 2710 |
| 2-Methylphenol | 0.0 | U | 4400 | 4410 | 2990 | 2780 |
| 3 & 4 Methylphenol | 0.0 | U | 4400 | 4410 | 2950 | 2760 |
| Naphthalene | 0.0 | U | 4400 | 4410 | 2700 | 2710 |
| 2-Nitroaniline | 0.0 | U | 4400 | 4410 | 3240 | 3090 |
| 3-Nitroaniline | 0.0 | U | 4400 | 4410 | 3080 | 2910 |
| 4-Nitroaniline | 0.0 | U | 4400 | 4410 | 3130 | 2930 |
| Nitrobenzene | 0.0 | U | 4400 | 4410 | 2690 | 2670 |
| 2-Nitrophenol | 0.0 | U | 4400 | 4410 | 2660 | 2600 |
| 4-Nitrophenol | 0.0 | U | 4400 | 4410 | 3360 | 2990 |
| N-Nitrosodi-n-propylamine | 0.0 | U | 4400 | 4410 | 3050 | 2900 |
| N-Nitrosodiphenylamine | 0.0 | U | 4400 | 4410 | 3020 | 2920 |
| Pentachlorophenol | 0.0 | U | 4400 | 4410 | 2780 | 2530 |
| Phenanthrene | 0.0 | U | 4400 | 4410 | 2960 | 2840 |
| Phenol | 0.0 | U | 4400 | 4410 | 3000 | 2820 |
| Pyrene | 0.0 | U | 4400 | 4410 | 3320 | 3050 |
| 1,2,4-Trichlorobenzene | 0.0 | U | 4400 | 4410 | 2600 | 2600 |
| 2,4,5-Trichlorophenol | 0.0 | U | 4400 | 4410 | 2960 | 2880 |
| 2,4,6-Trichlorophenol | 0.0 | U | 4400 | 4410 | 3010 | 2940 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57763**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: MB 680-57763/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1016
Date Prepared: N/A

Analysis Batch: 680-57763
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC18A4.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 0.25 | U | 0.082 | 0.25 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 92 | 61 - 139 |

**Lab Control Spike - Batch: 680-57763**

**Method: 8015B**
**Preparation: N/A**

Lab Sample ID: LCS 680-57763/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 0938
Date Prepared: N/A

Analysis Batch: 680-57763
Prep Batch: N/A
Units: mg/Kg

Instrument ID: GC Volatiles - A
Lab File ID: PC18A3.d
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 g
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1.00 | 0.972 | 97 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| a,a,a-Trifluorotoluene | 96 | 61 - 139 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Method Blank - Batch: 680-57703**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: MB 680-57703/4-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1705
Date Prepared: 10/18/2006 1320

Analysis Batch: 680-57845
Prep Batch: 680-57703
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0180028.d
Initial Weight/Volume: 30.00 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Result | Qual | MDL | RL |
|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 3.3 | U | 1.7 | 3.3 |
| Oil Range Organics (C20-C36) | 17 | U | 8.5 | 17 |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 82 | 15 - 154 |

**Lab Control Spike - Batch: 680-57703**

**Method: 8015B**
**Preparation: 3550B**

Lab Sample ID: LCS 680-57703/5-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 10/18/2006 1723
Date Prepared: 10/18/2006 1320

Analysis Batch: 680-57845
Prep Batch: 680-57703
Units: mg/Kg

Instrument ID: GC SemiVolatiles - Q
Lab File ID: q0180029.d
Initial Weight/Volume: 30.01 g
Final Weight/Volume: 1.0 mL
Injection Volume:
Column ID: PRIMARY

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 33.3 | 30.7 | 92 | 40 - 140 | |

| Surrogate | % Rec | Acceptance Limits |
|---|---|---|
| o-Terphenyl | 81 | 15 - 154 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Matrix Spike/**
**Matrix Spike Duplicate Recovery Report - Batch: 680-57703**

**Method: 8015B**
**Preparation: 3550B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 680-21196-3 | Analysis Batch: 680-57845 | Instrument ID: GC SemiVolatiles - Q |
| Client Matrix: | Solid | Prep Batch: 680-57703 | Lab File ID: q0180033.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.13 g |
| Date Analyzed: | 10/18/2006 1834 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/18/2006 1320 | | Injection Volume: |
| | | | Column ID: PRIMARY |

| | | | |
|---|---|---|---|
| MSD Lab Sample ID: | 680-21196-3 | Analysis Batch: 680-57845 | Instrument ID: GC SemiVolatiles - Q |
| Client Matrix: | Solid | Prep Batch: 680-57703 | Lab File ID: q0180034.d |
| Dilution: | 1.0 | | Initial Weight/Volume: 30.05 g |
| Date Analyzed: | 10/18/2006 1852 | | Final Weight/Volume: 1.0 mL |
| Date Prepared: | 10/18/2006 1320 | | Injection Volume: |
| | | | Column ID: PRIMARY |

| | % Rec. | | | | | | |
|---|---|---|---|---|---|---|---|
| Analyte | MS | MSD | Limit | RPD | RPD Limit | MS Qual | MSD Qual |
| Diesel Range Organics [C10-C28] | 76 | 83 | 40 - 140 | 9 | 40 | | |

| Surrogate | MS % Rec | MSD % Rec | Acceptance Limits |
|---|---|---|---|
| o-Terphenyl | 64 | 72 | 15 - 154 |

**Matrix Spike/**
**Matrix Spike Duplicate Data Report - Batch: 680-57703**

**Method: 8015B**
**Preparation: 3550B**

| | | | |
|---|---|---|---|
| MS Lab Sample ID: | 680-21196-3 | Units: mg/Kg | MSD Lab Sample ID: 680-21196-3 |
| Client Matrix: | Solid | | Client Matrix: Solid |
| Dilution: | 1.0 | | Dilution: 1.0 |
| Date Analyzed: | 10/18/2006 1834 | | Date Analyzed: 10/18/2006 1852 |
| Date Prepared: | 10/18/2006 1320 | | Date Prepared: 10/18/2006 1320 |

| Analyte | Sample Result/Qual | | MS Spike Amount | MSD Spike Amount | MS Result/Qual | MSD Result/Qual |
|---|---|---|---|---|---|---|
| Diesel Range Organics [C10-C28] | 1.91 | U | 43.9 | 44.0 | 33.4 | 36.4 |

Calculations are performed before rounding to avoid round-off errors in calculated results.

# LOGIN SAMPLE RECEIPT CHECK LIST

Client: Bhate Engineering

Job Number: 680-21196-1
Sdg Number: HOLL013

**Login Number: 21196**

| Question | T/F/NA | Comment |
|---|---|---|
| Radioactivity either was not measured or, if measured, is at or below background | NA | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | NA | |
| Samples do not require splitting or compositing. | NA | |

# APPENDIX E

# DATA VALIDATION REPORTS

# QUALITY CONTROL SUMMARY REPORT

| | |
|---|---|
| Project Name - | Holloman West POL |
| Bhate Project No. - | 9040238 |
| Analytical Lab - | STL Savannah, Georgia |
| Sample Delivery Group - | HOLL010 |
| Sample Date - | October 5, 2006 |
| Analyses - | Nine soil samples analyzed by methods SW8260B, SW8270C, and SW8015B; three trip blanks |
| Prepared by - | Marcia Olive, Bhate Environmental, Denver, CO |

## I. SAMPLE CUSTODY AND PRESERVATION

All samples were properly packaged, preserved and received by the laboratory.

## II. HOLDING TIMES

All samples were prepared and analyzed within method specific sample holding times.

## III. BLANKS

No target compounds were detected in the method blanks or the trip blanks.

## IV. LABORATORY CONTROL SAMPLES (LCS)

In method SW8260B, 1,1-dichloropropene reported a percent recovery (%R) above the QC limits for samples FLSS17-L13-B1R, FLSS17-L13-B2R, FLSS17-L13-B3R, FLSS17-L13-B4R, WPOL-SW21, and WPOL-SW24. This compound was non-detect (U) in the samples and no qualification was required. Dichlorodifluoromethane reported a %R less than the QC limits for samples WPOL-SW20, WPOL-SW22, and WPOL-Stockpile. This compound was non-detect (U) in all samples and qualified non-detected estimated (UJ). 4-Methyl-2-pentanone reported a %R less than the lower QC limits, since this compound was associated with the trip blanks no qualification was required.

In method SW8270C, benzoic acid reported a %R less than the lower QC limits for samples FLSS17-L13-B1R, FLSS17-L13-B2R, FLSS17-L13-B3R, FLSS17-L13-B4R, WPOL-SW20, WPOL-SW21, and WPOL-Stockpile. This compound was non-detect (U) in all samples and qualified non detected estimated (UJ).

## V. SURROGATES

In method SW8260B, 4-bromofluorobenzene in sample WPOL-SW20 reported a %R above control limits and reanalyzed with subsequent recovery also above control limits. All detected compounds, from the second run, were qualified estimated (J).

In method SW8270C, 2-fluorophenol and phenol-d5 recoveries were below QC limits in the matrix spike associated with sample FLSS17-L13-B1R. Using professional judgement, no qualification of the data was required.

High concentrations of TPH-DRO were detected in samples FLSS17-L13-B4R and WPOL-SW20, and as a result both samples required dilution. Because of the dilution requirement the surrogate was diluted out. Qualification of the associated data was not required.

## VI. OVERALL ASSESSMENT OF DATA

For samples WPOL-SW20, WPOL-SW22, and WPOL-Stockpile a dilution was required due to interfering, non-target compounds and elevated Reporting Limits (RL) were reported.

Overall, the data should be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria, except where noted. The data is 100% complete.

**Summary of Qualified Data**

| Sample ID | Parameter | *Qualifier |
|---|---|---|
| WPOL-SW20 | Dichlorodifluoromethane | 1,800 UJ |
| WPOL-SW22 | | 660 UJ |
| WPOL-Stockpile | | 720 UJ |
| FLSS17-L13-B1R | Benzoic acid | 2,000 UJ |
| FLSS17-L13-B2R | | 2,000 UJ |
| FLSS17-L13-B3R | | 2,400 UJ |
| FLSS17-L13-B4R | | 2,500 UJ |
| WPOL-SW20 | | 2,600 UJ |
| WPOL-SW21 | | 2,400 UJ |
| WPOL-SW-Stockpile | | 2,300 UJ |
| WPOL-SW20 | n-Butylbenzene | 9,300 J |
| | sec-Butylbenzene | 7,300 J |
| | Ethylbenzene | 2,500 J |
| | Isopropylbenzene | 1,900 J |
| | p-Isopropyltoluene | 6,100 J |
| | n-Propylbenzene | 3,700 J |
| | 1,2,4-Trimethylbenzene | 12,000 J |
| | 1,3,5-Trimethylbenzene | 4,000 J |

*Results are in micrograms per kilogram (µg/kg)

# QUALITY CONTROL SUMMARY REPORT

| | |
|---|---|
| Project Name - | Holloman West POL |
| Bhate Project No. - | 9040238 |
| Analytical Lab - | STL Savannah, Georgia |
| Sample Delivery Group - | HOLL011 |
| Analyses - | Five samples for SW8260B, SW8270C, and SW8015B |
| Prepared by - | Judy Solomon, Bhate Environmental, Birmingham, AL |

## I. SAMPLE CUSTODY AND PRESERVATION

All samples were properly packaged, preserved, and received by the laboratory.

## II. HOLDING TIMES

All samples were prepared and analyzed within method specific sample holding times.

## III. BLANKS

With the exception of the Total Petroleum Hydrocarbon - Diesel Range Organics (TPH-DRO) method blank, no target compounds were detected in the method blanks of the remaining analysis. Because the field sample concentrations of TPH-DRO were greater than five times the amount detected in the method blank, qualification of the field data was not required.

## IV. LABORATORY CONTROL SAMPLES (LCS)

The percent recovery (%R) for trichlorofluoromethane, dichlorodifluoromethane, and benzoic acid were below the QC limits. Although those compounds were not detected in the field samples, the associated data were qualified as non-detected estimated, UJ. Dichlorodifluoromethane was associated with the trip blank and qualification was not required.

## V. SURROGATES

Due to the high concentration of semi-volatile compounds in sample WPOL-SW26, all six surrogates were diluted out beyond calculation. Qualification of the data was not required.

High concentrations of TPH-DRO were also detected in samples WPOL-SW26 and WPOL-SW27, and as a result both samples were diluted, and the surrogates were diluted out beyond calculation. Again, qualification of the associated data was not required. All other surrogates in the field samples met the method specific QC requirements for the %Rs.

## VI. OVERALL ASSESSMENT OF DATA

Overall, the data should be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria, except where noted. The data is 100% complete.

**Summary of Qualified Data**

| Sample ID | Parameter | *Qualifier |
|---|---|---|
| WPOL-SW26 | Trichlorofluoromethane | 1,600 UJ |
| WPOL-SW26 | Benzoic acid | 25,000 UJ |
| WPOL-SW27 | Trichlorofluoromethane | 750 UJ |
| WPOL-SW27 | Benzoic acid | 2,400 UJ |
| WPOL-SW28 | Trichlorofluoromethane | 270 UJ |
| WPOL-SW28 | Benzoic acid | 2,400 UJ |

* = Results are in micrograms per kilogram (µg/kg)

# QUALITY CONTROL SUMMARY REPORT

| | |
|---|---|
| Project Name - | Holloman West POL |
| Bhate Project No. - | 9040238 |
| Analytical Lab - | STL Savannah, Georgia |
| Sample Delivery Group - | HOLL012 |
| Analyses - | Three samples for SW8260B, SW8270C, and SW8015B |
| Prepared by - | Judy Solomon, Bhate Environmental, Birmingham, AL |

## I. SAMPLE CUSTODY AND PRESERVATION

All samples were properly packaged, preserved, and received by the laboratory.

## II. HOLDING TIMES

All samples were prepared and analyzed within method specific sample holding times.

## III. BLANKS

No target compounds were detected in the method blanks of all of the analysis.

## IV. LABORATORY CONTROL SAMPLES (LCS)

The percent recovery (%R) for benzene and Freon 113 were below the QC limits. Although those compounds were not detected in the field samples, the associated data were qualified as non-detected estimated, UJ. All other LCS requirements were met.

## V. SURROGATES

With the exception of one surrogate which was below the QC limits in the semi-volatile analysis of sample WPOL-SW30, all other surrogates in the field samples met the method specific QC requirements for the %Rs.

## VI. OVERALL ASSESSMENT OF DATA

Overall, the data should be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria, except where noted. The data is 100% complete.

**Summary of Qualified Data**

| Sample ID | Parameter | *Qualifier |
|---|---|---|
| WPOL-SW29 | Benzene | 6.6 UJ |
| WPOL-SW29 | Freon 113 | 6.6 UJ |
| WPOL-SW30 | Benzene | 5.6 UJ |
| WPOL-SW30 | Freon 113 | 5.6 UJ |
| WPOL-SW31 | Benzene | 7.4 UJ |
| WPOL-SW31 | Freon 113 | 7.4 UJ |

* = Results are in micrograms per kilogram (µg/kg)

# QUALITY CONTROL SUMMARY REPORT

| | |
|---|---|
| Project Name - | Holloman West POL |
| Bhate Project No. - | 9040238 |
| Analytical Lab - | STL Savannah, Georgia |
| Sample Delivery Group - | HOLL013 |
| Analyses - | Three samples for SW8260B, SW8270C, and SW8015B |
| Prepared by - | Judy Solomon, Bhate Environmental, Birmingham, AL |

## I. SAMPLE CUSTODY AND PRESERVATION

All samples were properly packaged, preserved, and received by the laboratory.

## II. HOLDING TIMES

All samples were prepared and analyzed within method specific sample holding times.

## III. BLANKS

No target compounds were detected in the method blanks of all of the analysis.

## IV. LABORATORY CONTROL SAMPLES (LCS)

The percent recovery (%R) for benzene and Freon 113 were below the QC limits. Although those compounds were not detected in the field samples, the associated data were qualified as non-detected estimated, UJ. All other LCS requirements were met.

## V. SURROGATES

All surrogates met the method specific QC requirements for the %Rs.

## VI. OVERALL ASSESSMENT OF DATA

Overall, the data should be suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria, except where noted. The data is 100% complete.

**Summary of Qualified Data**

| Sample ID | Parameter | *Qualifier |
|---|---|---|
| WPOL-SW23A | Benzene | 5.6 UJ |
| WPOL-SW23A | Freon 113 | 5.6 UJ |
| WPOL-SW23B | Benzene | 6.1 UJ |
| WPOL-SW23B | Freon 113 | 6.1 UJ |
| WPOL-SW23C | Benzene | 5.5 UJ |
| WPOL-SW23C | Freon 113 | 5.5 UJ |

* = Results are in micrograms per kilogram (µg/kg)

# Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

# Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on April 18, 2007. Four aqueous samples and six trip blanks were taken from the West POL site for analyses. All analyses were performed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation were:

| Sample ID | Matrix | Collection Date | Lab SDG | Analyses (USEPA Method Number) |
|---|---|---|---|---|
| WPOL-MW01 | Water | 04/18/07 | F48898 | VOCs (SW8260B); SVOCs (SW8270C); TPH-GRO, DRO, ORO (SW8015/8015M); TDS (160.1) |
| WPOL-MW02 | Water | 4/18/07 | F48898 | VOCs (SW8260B); SVOCs (SW8270C); TPH-GRO, DRO, ORO (SW8015/8015M); TDS (160.1) |
| WPOL-MW03 | Water | 4/18/07 | F48898 | VOCs (SW8260B); SVOCs (SW8270C); TPH-GRO, DRO, ORO (SW8015/8015M); TDS (160.1) |
| WPOL-MW04-a | Water | 4/18/07 | F48898 | VOCs (SW8260B); SVOCs (SW8270C); TPH-GRO, DRO, ORO (SW8015/8015M); TDS (160.1) |

SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TDS – Total Dissolved Solids

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004), and in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999).

# Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times.

# Blanks

Methylene chloride was detected in the trip blanks associated with the samples. Acetone was detected in the trip blank linked with the matrix spike duplicate. Acetone and

methylene chloride were detected in the method blank related to all samples and trip blanks. These compounds are common laboratory contaminants and since they were not detected in any sample, no qualification of the sample data was required.

## Blank Spike Sample (Laboratory Control Sample)/ Surrogates

All laboratory control sample (LCS) results met the QC requirements for the percent recoveries (%Rs) for all analysis.

The surrogate recovery for phenol-d5 in the matrix spike/matrix spike duplicate (MS/MSD) samples was above QC limits. All additional semi-volatile surrogate recoveries were within QC limits as well as the surrogate recovery within limits for the sample. Therefore, qualification of the data was not required.

All other surrogates met the required QC recovery limits for all analysis.

## Matrix Spike/Matrix Spike Duplicates

In method SW8260B, the MS/MSD recoveries and/or relative percent difference (RPD) for acetone, allyl chloride, benzene, bromobenzene, bromochloromethane, bromodichloromethane, bromoform, n-butylbenzene, sec-butylbenzene, tert-butylbenzene, chlorobenzene, chloroethane, chloroform, 1-chlorohexane, o-chlorotoluene, p-chlorotoluene, 2-chloroethyl vinyl ether, carbon disulfide, carbon tetrachloride, 1,1-dichloroethane, 1,1-dichloroethylene, 1,1-dichloropropene, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, 1,2-dichloroethane, 1,2-dichloropropane, 1,3-dichloropropane, 2,2-dichloropropane, dibromochloromethane, dichlorodifluoromethane, cis-1,2-dichloroethylene, cis-1,3-dichloropropene, cis-1,4-dichloro-2-butene, m-dichlorobenzene, o-dichlorobenzene, p-dichlorobenzene, trans-1,2-dichloroethylene, trans-1,3-dichloropropene, ethylbenzene, ethyl methacrylate, Freon 113, hexachlorobutadiene, hexane, isopropylbenzene, p-isopropyltoluene, methyl bromide, methyl iodide, methylene bromide, methylene chloride, methyl tert butyl ether, naphthalene, pentachloroethane, n-propylbenzene, styrene, 1,1,1,2-tetrachloroethane, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,2,3-trichlorobenzene, 1,2,4-trichlorobenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, tetrachloroethylene, toluene, trichloroethylene, trichlorofluoromethane, trans-1,4-dichloro-2-butene, m,p-xylene and o-xylene were outside control limits due to matrix interference.

In method SW8270C, the MS/MSD recoveries for benzidine and 3,3'-dichlorobenzidine were outside QC limits.

Method performances were cross referenced with the associated LCSs, which met the QC requirements. Therefore, qualification of the sample data was not required.

## Project Specific Quality Assurance/Quality Control

In sample WPOL-MW03 the analysis for TPH-GRO was verified via a confirmation run.

The duplicate result for TDS was within QC limits.

## Compound Quantitation and Reporting Limits

All compounds were reported down to the specific RL without dilutions.

## Overall Assessment of Data

Overall, the data is suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

# Data Validation Report

This report contains the results of the review and validation of the specified data package performed by Marcia Olive, Bhate Environmental Associates, Inc., Denver, Colorado.

# Introduction

This data validation report covers samples taken from Holloman Air Force Base, New Mexico, on April 18-24, 2007. Three aqueous samples and one trip blank were taken from the West POL site for analyses. All analyses were performed by Accutest Laboratories of Orlando, Florida. The specific samples included in this validation were:

| Sample ID | Matrix | Collection Date | Lab SDG | Analyses (USEPA Method Number) |
|---|---|---|---|---|
| WPOL-MW04 | Water | 04/18/07 | F48994 | VOCs (SW8260B), TPH-GRO (SW8015) |
| WPOL-MW04 | Water | 4/23/07 | F48994 | SVOCs (SW8270C), TDS (160.1) |
| WPOL-MW04 | Water | 4/24/07 | F48994 | TPH-DRO, ORO (SW8015M) |

SDG – Sample Delivery Group, USEPA – U.S. Environmental Protection Agency, VOCs – Volatile Organic Compounds, SVOCs – Semi-volatile Organic Compounds, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, ORO – Oil Range Organics, TDS – Total Dissolved Solids

This data was validated against the laboratory's quality assurance/quality control (QA/QC) limits using the guidelines and practices published in the *USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review* (USEPA, October 2004), and in the *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review* (USEPA, October 1999).

# Sample Handling and Holding Times

All samples were properly preserved and transferred under chain-of-custody to the laboratory for analysis and analyzed within the required holding times except for the trip blank which was re-analyzed one day beyond hold time. This reanalysis confirmed the results of the original analysis. Also, significant headspace was recorded in the sample vial from the second trip blank analysis. For reporting purposes the original analytical batch was used for the sample data therefore, no qualification of the sample data was required.

## Blanks

1,2,3-Trichlorobenzene was detected in the method blank associated with the initial run. The method blank for the re-analysis reported a non-detect for this compound. In the trip blank, the result for this compound was reported from the second run. Since the reported data was from the original analysis and this compound was non-detect in the sample, no qualification of the sample data was required.

## Blank Spike Sample (Laboratory Control Sample)/ Surrogates

All laboratory control sample (LCS) results met the QC requirements for the percent recoveries (%Rs) for all analysis.

The surrogate recovery for phenol-d5 in the matrix spike/matrix spike duplicate (MS/MSD) samples was above QC limits. All additional semi-volatile surrogate recoveries were within QC limits as well as this surrogate recovery within limits for the sample. Therefore, qualification of the data was not required.

All other surrogates met the required QC recovery limits for all analysis.

## Matrix Spike/Matrix Spike Duplicates

In method SW8260B, the MS/MSD recoveries for 2-chloroethyl vinyl ether was outside control limits.

In method SW8270C, the MSD recovery and relative percent difference (RPD) for benzidine was outside QC limits.

Method performances were cross referenced with the associated LCSs, which met the QC requirements. Therefore, qualification of the sample data was not required.

The sample used for the MS/MSD analysis associated with the trip blank for run #2 was not preserved to a pH<2. As stated earlier, this data was not used for reporting purposes therefore no qualification was required.

## Project Specific Quality Assurance/Quality Control

The duplicate result for TDS was within QC limits.

## Compound Quantitation and Reporting Limits

All compounds were reported down to the specific RL without dilutions.

## Overall Assessment of Data

Overall, the data is suitable for the intended data usage. All analyses were performed, and the data met the required QC criteria. The data is 100% complete.

# APPENDIX F

# WASTE MANIFESTS

# March 2003 Waste Manifests

#5502

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3.0.6.4.A | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 26.22 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 05 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivero | [signature] | 03 | 05 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivero | [signature] | 3 | 5 | 03 |

[redacted]

TRANSPORTER #1

# DNJ 72.940-35.700

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30648 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 18.62 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs | Signature | Month 03 Day 05 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Jackson | Signature | Month 03 Day 05 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gene Rivers | Signature | Month 03 Day 05 Year 03

ORIGINAL – RETURN TO GENERATOR

Scale Ticket # 1994

DNJ Truck 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3.0.6.4.C

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated

19.50 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: C David Scruggs | Signature: [signature] | Month 0 3 | Day 0 5 | Year 0 3

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods | Signature: Charles E Woods | Month 3 | Day 5 | Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Gary Rivera | Signature: [signature] | Month 1 3 | Day 05 | Year 03

GENERATOR

TRANSPORTER

FACILITY

TRANSPORTER #2

12-BLS-C5 Rev. 12/98

TRK# 5502

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 3.0.6.4.D
2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 22.93 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: David Scruggs
Signature:
Month 0 3 Day 0 3 Year 0 3

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jenny Rivera
Signature:
Month 3 Day 5 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Jenny Rivera
Signature:
Month 3 Day 5 Year 03

GENERATOR
TRANSPORTER
FACILITY

TRANSPORTER #2

TRK # 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3064E

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 23.80 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month: [illegible] Day: [illegible] Year: [illegible]

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: CL Woods | Signature: Charles L Woods | Month: 3 Day: 5 Year: 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month: Day: Year:

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivera | Signature: [signature] | Month: 3 Day: 5 Year: 03

Printed on Recycled Paper
Needs 2 Signatures

TRANSPORTER #2

12-BLS-C5 Rev. 12/98

WT. # 17171 TRK # 212

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3064F

2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 23.76 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Sergio | Signature | Month 0 | Day 0 | Year 0

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature | Month 0 | Day 0 | Year 0

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Renee Rivera | Signature | Month 3 | Day 5 | Year 03

GENERATOR

TRANSPORTER

FACILITY

Printed/Typed Name of Representative

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

Time: 7:30

TRK # 5502

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3065A | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 25.40 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| C Dave Scruggs | [signature] | 03 | 06 | 03 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 3 | 6 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 3 | 6 | 03 |

GENERATOR

TRANSPORTER

FACILITY

[redacted]

TRANSPORTER #1

[redacted]

11:15 11:40 actual

TAX 212

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3065 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.59 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature | Month 03 Day 06 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature | Month 3 Day 6 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Henry Rivera | Signature | Month 03 Day 26 Year 03

[redacted]

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

Time 11:15

TRK # 210

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3065F | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| ~~Rhino Environmental~~ A & D J Trucking | N/A | ~~915-842-9911~~ 430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 25.28 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 06 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Charles C Woods | Charles C Woods | 03 | 06 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| C/ Rivera | [signature] | 3 | 06 | 03 |

[redacted]

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

14:45
Time ~~2:45~~

Trk # 2202

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.65 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated
18.36 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | David Scruggs | 03 | 06 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | Jerry Rivero | 03 | 06 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | Jerry Rivero | 3 | 6 | 03 |

TRANSPORTER #1

Time 14:45

Scale Ticket 19207

TCK # 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3065 H

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone

915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated

19.04 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Griggs | Signature: [signature] | Month 03 | Day 06 | Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods | Signature: Charles E Woods | Month 3 | Day 6 | Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jimmy Rivera | Signature: [signature] | Month 3 | Day 6 | Year 05

GENERATOR

TRANSPORTER

FACILITY

Printed on Recycled Paper

14 BLS 05 Rev. 12/98

TRANSPORTER #2

Time 19:45

Trk # 212

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3065 I

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 15.52 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature | Month 3 | Day 6 | Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Johnny Rivera | Signature | Month 3 | Day 6 | Year 03

GENERATOR

TRANSPORTER

FACILITY

Printed on Recycled Paper
Neenah, Wisconsin 54956

TRANSPORTER #2

12-BLS-C5 Rev. 12/98

Time 8:00

TRK #210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30658

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone

915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy/s | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.52 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs | Signature | Month 03 | Day 20 | Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods | Signature: Charles E Woods | Month 3 | Day 6 | Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero | Signature | Month 3 | Day 6 | Year 03

GENERATOR

TRANSPORTER

FACILITY

12 BLS-C5 Rev. 12/98

TRANSPORTER #2

Time 8:10

TRK # 212

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3065.C | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cu/yd | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.57 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Sorrows | | 03 | 06 | 03 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Jackson | | | | |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | | 03 | 06 | 03 |

GENERATOR

TRANSPORTER

FACILITY

[redacted]

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

Time 11:15

Trk # 5502

[redacted]

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3065D

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.32 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 06 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 6 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 6 Year 03

GENERATOR

TRANSPORTER

FACILITY

[redacted]

TRANSPORTER #1

[redacted]

Time: 7:30

TRK #5502

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3066A | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |

| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
|---|---|---|
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.69 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 07 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 3 | 7 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 3 | 7 | 03 |

[redacted]

TRANSPORTER #1

12B1 S-05 Rev. 12/98

Time 7:30

Scale TK 19211

Truck 210

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3066B

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.44 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs
Signature:
Month 03 Day 07 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month 3 Day 7 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivera
Signature:
Month 3 Day 7 Year 03

GENERATOR

TRANSPORTER

FACILITY

Form 12-BLS-C5 Rev. 12/98

TRANSPORTER #2

Time: 7:30 15 SCALE # 19212 TRK # 212
OT 22980

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3066C | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 21.14 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 07 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Jackson | Signature: [signature] | Month 03 Day 07 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: | Signature: | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gaylen Rivers | Signature: [signature] | Month 3 Day 7 Year 07

[redacted]

TRANSPORTER #2

NM-2-BLS-C5 Rev. 12/98

# 5502

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 3066 D
2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 21.61 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 07 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month 3 Day 7 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month 3 Day 7 Year 03

GENERATOR — TRANSPORTER — FACILITY

Print Name: [illegible]

BES-05 Rev. 12/98

TRANSPORTER #2

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3066 E

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy's | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 20.51 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 07 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature: [signature] | Month 03 Day 07 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space: Actual load time was 1150

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: [illegible] | Signature: [signature] | Month 03 Day 07 Year 03

GENERATOR

TRANSPORTER

FACILITY

Printed by: [illegible]

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

TRK # 210

Scale TK 19210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3066 F

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

**TRANSPORTER**

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

**FACILITY**

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 28 tons | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 24.12 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 07 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods | Signature: Charles E Woods | Month [illegible] Day 17 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivers | Signature: [signature] | Month 03 Day 07 Year 03

Printed by: [illegible] Neenah, [illegible]

12-BLS-C5 Rev. 12/98

TRANSPORTER #2

Tue 15:00 / 5 [illegible] 17240
Ot. 79,470 #212

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 3046 G
2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking
6. US EPA ID Number: N/A
A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 21.89 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste
Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 07 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Jackson
Signature: [signature]
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month 03 Day 07 Year 03

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jerry Rivera
Signature: [signature]
Month 03 Day 07 Year 03

# 5502

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3066 H

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 24.38 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | David Scruggs | 03 | 07 | 03 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivera | [signature] | 03 | 07 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivera | [signature] | 03 | 07 | 03 |

GENERATOR

TRANSPORTER

FACILITY

730

TRK # 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3069A

2. Page 1 of 1

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( ): 505 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051), 1.7 miles North of NM/TX state line, HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Exempt / Non-Hazardous / Jet Fuel Contaminated 23.48 tons

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 10 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods — Signature: Charles E Woods — Month 3 Day 10 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space: Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero — Signature: [signature] — Month 3 Day 10 Year 03

GENERATOR / TRANSPORTER / FACILITY

Printed by [illegible]

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

7130 TRK 5502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 3069B
2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 25.01 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 10 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerry Rivera
Signature: [signature]
Month 3 Day 10 Year 3

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jerry Rivera
Signature: [signature]
Month 3 Day 10 Year 03

Printed by: KELLER ASSOCIATES, INC. Norman, NM 54927-0358

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 1125

TRK# 55502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3069C

2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy/ds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 22.85 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 10 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month 3 Day 10 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month 3 Day 10 Year 03

[redacted]

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time: 11:20 Tkt # 210

Scale TK 19224

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.69D | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone (505) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 tons | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.08 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 10 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Charles E Woods | Charles E Woods | 3 | 10 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivero | [signature] | 3 | 10 | 03 |

Printed by J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

**ORIGINAL – RETURN TO GENERATOR**

Time 14:20

TRK # 210

SC. TK 19229

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3069 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone 505 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.47 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | David Scruggs | 03 | 10 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Charles E Woods | Charles E Woods | 03 | 10 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | Jerry Rivera | 03 | 10 | 03 |

Printed by: KELLER & ASSOCIATES, INC.
Norcross, Georgia 30093

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time: 14:20 Tek # 5502

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3069 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cys | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 21.11 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 3 Day 10 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 10 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 10 Year 03

Printed on Recycled Paper
Neenah, WI 54956

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Time 6:30

TRK # 210

Scale # 19231

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3070A

2. Page 1 of 1

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: D+J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.69 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 11 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods — Signature: Charles E Woods — Month 3 Day 11 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero — Signature: [signature] — Month 3 Day 11 Year 03

GENERATOR — TRANSPORTER — FACILITY

Printed by J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0300

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 7:30

TRK # 2502

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3070B

2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy's | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 23.64 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: David Scruggs
Month Day Year: 03 / 1 / 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero
Signature: Jerry Rivero
Month Day Year: 3 VI 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name: Jerry Rivero
Signature: Jerry Rivero
Month Day Year: 3 VI 03

Printed by C.C. Keller & Associates, Inc.
Nasco's NI 5A37[illegible]

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

6:30 [illegible] TRK # 2 1/2

[redacted] Gr. 82740 [redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3070 C | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone (505) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 23.52 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 11 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Jackson | [signature] | 03 | 11 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Gerry Rivero | [signature] | 3 | 11 | 03 |

Printed by: [illegible] Neopost [illegible]

**ORIGINAL – RETURN TO GENERATOR**

12-BLS-C5 Rev. 12/98

Time 10:00 Gr. 73,440 TRK 212

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30700

2. Page 1 of 1

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( ): 505 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051), 1.7 miles North of NM/TX state line, HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

Bong Street, West POL Yard, Holloman AFB, NM

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 200 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Exempt / Non-Hazardous / Jet Fuel Contaminated 18.87 tons

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 11 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson — Signature: [signature] — Month 03 Day 11 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gerry Rivers — Signature: [signature] — Month 03 Day 11 Year 03

GENERATOR — TRANSPORTER — FACILITY

Printed by [illegible] Neenah, WI 54957-0338

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time: 10:45

TRK # 5502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3070 E

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone (505) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | 12. Containers Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated

21.06 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs

Signature: [signature]

Month 03 Day 11 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero

Signature: [signature]

Month 03 Day 11 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:

Signature:

Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero

Signature: [signature]

Month 3 Day 11 Year 03

Printed by: KELLER PRINTING CO., INC.
Neenah, WI 54956-1380

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

11.05

Tek 210

Scale Ticket 19235-77830

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30.70.A

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20cy/ts | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 22.14 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: David Scruggs
Month Day Year: 03 11 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month Day Year: 3 11 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero
Signature
Month Day Year: 3 11 03

GENERATOR

TRANSPORTER

FACILITY

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

12 BLS C5 Rev. 12/98

Time 2:35 TRK 5502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 307068
2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone (505) 572-3931

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-842-9911

7. Transporter 2 Company Name:
8. US EPA ID Number:
B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 20.74 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: David Scruggs
Signature: [signature]
Month Day Year: 10 31 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month Day Year: 13 11 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year:

FACILITY

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jenny Rivero
Signature: [signature]
Month Day Year: 13 11 03

[redacted]

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time: 2:55 Scale# 19238 Tek # 212

GR. 78.100

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30.70H

2. Page 1 of 1

3. Generator's Name ~~and Mailing~~ Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street, West POL Yard, Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051), 1.7 miles North of NM/TX state line, HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Exempt / Non-Hazardous / Jet Fuel Contaminated 21.20 tons

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month / Day / Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson — Signature: [signature] — Month / Day / Year: 03 / 1 / 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month / Day / Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero — Signature: [signature] — Month / Day / Year: 03 / 11 / 03

GENERATOR — TRANSPORTER — FACILITY

ORIGINAL – RETURN TO GENERATOR

12 BLS C5 Rev. 12/98

Time: 1500

TRK # 210

Scale 19239 gwt 77530

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3070 I

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.99 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

GENERATOR

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 11 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods — Signature: Charles E Woods — Month 3 Day 11 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivera — Signature: [signature] — Month 3 Day 11 Year 03

Printed by J.J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

Time 6:15

TRK ~~212~~ 5502

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3071 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 42.58 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.29 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 10 | 3/2 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | [signature] | 3 | 12 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | [signature] | 3 | 12 | 03 |

[redacted]

2-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Time 6:15

GR. 75-600

Tek # 212

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30718

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20.71 | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 20.71 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 3 Day 12 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson — Signature: [signature] — Month 3 Day 12 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivers — Signature: [signature] — Month 3 Day 12 Year 03

Printed by: J. KEISER & ASSOCIATES, INC. Norman, Oklahoma

12 BL 6-95 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Time 615

TRN # 210

[redacted]

Wt. 42,500 N

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.71.C | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street, West POL Yard, Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 2 cu yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Exempt / Non-Hazardous / Jet Fuel Contaminated 21.25 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 12 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods — Signature: Charles E Woods — Month 3 Day 12 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

**FACILITY**

19. Discrepancy Indication Space: Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero — Signature: [signature] — Month 3 Day 12 Year 03

[redacted]

12 BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Departure: 10:30 AM. SCALE # 17241 TRK # 212

11:35 Gr. 82.160

[redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30710 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 23.99 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 12 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature: [signature] | Month 03 Day 12 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Henry Rivero | Signature: [signature] | Month 3 Day 12 Year 03

Printed by: [illegible] Neenah, WI [illegible]

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Departure:

TRK 210

[redacted] Sc TK 19242- 76580 [redacted]

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.712 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20.94 tons | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 12 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Charles E Woods | Charles E Woods | 3 | 12 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Gerry Rivera | [signature] | 3 | 12 | 03 |

[redacted] 12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 10:15 AM

TRK # 5502

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3071 A | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-842-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.66 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 12 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 03 | 12 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero | [signature] | 3 | 12 | 03 |

Printed by: WESTERN ASSOCIATES, INC. Roswell, New Mexico

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time: ~~12:45~~ 13:00 Scale # 19244 TRK # 212

GR. 75.830

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A. | Manifest Doc. No. 30716 | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
Holloman AFB, NM

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 20.83 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 12 | 03 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Jackson | [signature] | 03 | 12 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | [signature] | 3 | 12 | 03 |

GENERATOR TRANSPORTER FACILITY

Printed by L.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

12 BLS C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 13:10 TK 210

TK 19245 75770 gr

**NON-HAZARDOUS WASTE MANIFEST**

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30714

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
Holloman AFB, NM

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 20.54 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 12 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month 03 Day 12 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gerry Rivero
Signature: [signature]
Month 3 Day 12 Year 03

GENERATOR
TRANSPORTER
FACILITY

12-BLS-05 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 13:30 TRK # 5502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 30.71
2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
El Paso, TX 79927

4. Generator's Phone ( 505 ) 572-3931

5. Transporter 1 Company Name: Rhino Environmental
6. US EPA ID Number: N/A
A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 21.64 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste
Printed/Typed Name: David Scruggs
Signature: [signature]
Month Day Year: 03 12 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month Day Year: 13 12 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month Day Year: 13 12 03

Printed by J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54956-0368

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time; 0615

TRK 210

77380 gr

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3072.A | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

Bong Street
West POL Yard
El Paso, TX 79927

4. Generator's Phone ( 505 ) 572-3931

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.34 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 13 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Charles E Woods | Charles E Woods | 3 | 13 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivera | [signature] | 3 | 13 | 03 |

Printed by: PINEGLEN [illegible]
Negrete [illegible]

ORIGINAL – RETURN TO GENERATOR

12 BLS C5 Rev. 12/98

Time 0.615

Ticket 212

GT-81,540

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30728

2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 23.66 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 13 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson — Signature: [signature] — Month 03 Day 13 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Henry Rivero — Signature: [signature] — Month 3 Day 13 Year 03

Printed Name

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time: 06:25

TRK # 5502

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.72 C | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-852-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.32 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 13 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Gerry Rivera — Signature: [signature] — Month 3 Day 13 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

**FACILITY**

19. Discrepancy Indication Space

~~Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922~~

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Gerry Rivera — Signature: [signature] — Month 3 Day 13 Year 03

Formerly AFO Kelley Printing
Needham, MA 02494

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Time 10:00

Ticket # 19248

Tck # 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3072D

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.41 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: David Scruggs
Month Day Year: 03 13 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month Day Year: 3 13 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Henry Rivero
Signature
Month Day Year: 3 13 03

GENERATOR

TRANSPORTER

FACILITY

Prepared by Laidlaw Environmental Services, Inc.
Neenah, WI 54957-0308

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 10:05 Scale #19249 Trk # 212
GR. 81.090

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30.72.8 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 26 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 23.44 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: David Scruggs
Month 03 Day 13 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Jackson
Signature: James Jackson
Month 03 Day 13 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Month Day Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivero
Signature: Jenny Rivero
Month 3 Day 13 Year 03

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 10:10

TRK# 5502

[redacted]

# NON-HAZARDOUS WASTE MANIFEST

1. ~~Generator's~~ US EPA ID No.: N/A

Manifest Doc. No.: 3.0.72.7

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy/ds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.71 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 13 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jenny Rivero | Signature: [signature] | Month 3 Day 13 Year 02

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: | Signature: | Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivero | Signature: [signature] | Month 3 Day 13 Year 02

Printed by J.J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time 1315 Scale # 19251 Trk # 212

Gt-84.080

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3072G | 2. Page 1 of 1 |
|---|---|---|---|

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 200 yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 24.93 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | [signature] | 03 | 13 | 03 |

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| James Jackson | [signature] | 03 | 13 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jenny Rivero | [signature] | 3 | 13 | 03 |

GENERATOR

TRANSPORTER

FACILITY

Formerly Form 8700-22 Necessary for Use Prior to 9/5/94

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time 13:20 Trk # 210

Ticket 19253 = 79530

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A
Manifest Doc. No.: 3072 H
2. Page 1 of 1

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking
6. US EPA ID Number: N/A
A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name
8. US EPA ID Number
B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico
10. US EPA ID Number: N/A
C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cy/ds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 22.42 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 13 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month 3 Day 13 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivera
Signature: [signature]
Month 3 Day 13 Year 03

GENERATOR
TRANSPORTER
FACILITY

Printed by [illegible]
Neopost [illegible]

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time 1325

Trk # 5502

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. N/A

Manifest Doc. No. 3072 II

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.45 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 13 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month 3 Day 13 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month 3 Day 13 Year 03

GENERATOR

TRANSPORTER

FACILITY

12BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Time 630

Trk# 5502

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3023A

2. Page 1 of 1

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cy yds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 26.10 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 14 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero | Signature: [signature] | Month 3 Day 14 Year 03

Brown's Packaging & Supply Co., Inc. Norman, OK

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 630

TRK # 210

weight 82980

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No. 3073B

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 24.14 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature | Month 03 Day 14 Year 03

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods | Signature: Charles E Woods | Month 3 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Ginny Rivera | Signature | Month 3 Day 14 Year 03

12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

Time 630 10 Schule/ Cell # TRK # 212
GR 84.660

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3.0.73.C | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 2 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 25.22 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature: [signature] | Month 03 Day 14 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: James Jackson | Signature: [signature] | Month 03 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivero | Signature: [signature] | Month 3 Day 14 Year 03

Printed on Recycled Paper

ORIGINAL – RETURN TO GENERATOR

12 BLS C5 Rev 12/98

Time 10:30 ( TRK# 210

Ticket 19256 76990

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 30.73 D

2. Page 1 of 1

3. Generator's Name and Mailing Address: 49 CES/CEV, HWY 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street, West POL Yard, Holloman AFB, NM

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address: Rhino Environmental (DP1051), 1.7 miles North of NM/TX state line, HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone: 915-842-9911, 800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Exempt / Non-Hazardous / Jet Fuel Contaminated 21.15 tons

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 14 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods — Signature: Charles E Woods — Month 3 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space: Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jenny Rivera — Signature: [signature] — Month 3 Day 14 Year 03

GENERATOR — TRANSPORTER — FACILITY

Printed by: J. J. KELLER & ASSOCIATES, INC. Neenah, WI 54956-0468

ORIGINAL – RETURN TO GENERATOR

12-BLS-05 Rev. 12/98

SCALE # 19251

Time 1035 TRK # 5502

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3073 E

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone 505 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: Rhino Environmental

6. US EPA ID Number: N/A

A. Transporter's Phone: 915-852-9911

7. Transporter 2 Company Name:

8. US EPA ID Number:

B. Transporter's Phone:

9. Designated Facility Name and Site Address

Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 200 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 20.16

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs
Signature: [signature]
Month 03 Day 14 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month 3 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivero
Signature: [signature]
Month 3 Day 14 Year 03

GENERATOR

TRANSPORTER

FACILITY

Time 1035 Scale # 19257 Tax # 212

Gr. 72.170

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 3073 F | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| D n J Trucking | N/A | 505-430-2455 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 18.98 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs — Signature: [signature] — Month 03 Day 14 Year 03

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson — Signature: [signature] — Month 03 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Benny Rivero — Signature: [signature] — Month 3 Day 14 Year 03

Printed by J.J. KELLER & ASSOCIATES, INC. Neenah, WI 54957-0368

ORIGINAL – RETURN TO GENERATOR

Time 14:05

Tkt # 212

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3 0 2 3 6

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.16 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: David Scruggs | Signature | Month 03 Day 19 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: James Jackson | Signature | Month 03 Day 19 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jerry Rivera | Signature | Month 3 Day 19 Year 03

GENERATOR

TRANSPORTER

FACILITY

Printed by [illegible]
Nevada, MO 64772

ORIGINAL – RETURN TO GENERATOR

12 BLS-C5 Rev. 12/98

Time 14:18

Tet 210

# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: N/A

Manifest Doc. No.: 3073.H

2. Page 1 of 1

3. Generator's Name and Mailing Address

49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

5. Transporter 1 Company Name: D n J Trucking

6. US EPA ID Number: N/A

A. Transporter's Phone: 505-430-2455

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
Rhino Environmental (DP1051)
1.7 miles North of NM/TX state line
HWY 54, Otero County, New Mexico

10. US EPA ID Number: N/A

C. Facility's Phone
915-842-9911
800-762-0241

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 Cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above

Exempt / Non-Hazardous / Jet Fuel Contaminated 21.60 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name: David Scruggs
Signature: David Scruggs
Month 03 Day 14 Year 03

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Charles E Woods
Signature: Charles E Woods
Month 3 Day 14 Year 03

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

Line 5 Address: P.O. Box 693, La Luz, NM 88337

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Penny Rivero
Signature
Month 3 Day 14 Year 03

GENERATOR

TRANSPORTER

FACILITY

Primary: WHITE FEDERAL RECORD
Neenah, WI 54957-0963

ORIGINAL – RETURN TO GENERATOR

12-BLS-C5 Rev. 12/98

Time 14:50 TRK 5502

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. N/A | Manifest Doc. No. 30723 | 2. Page 1 of 1 |
|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address
49 CES/CEV
HWY 70
Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 572-3931

Bong Street
West POL Yard
El Paso, TX 79927

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental | N/A | 915-852-9911 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| | | |

| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
|---|---|---|
| Rhino Environmental (DP1051)<br>1.7 miles North of NM/TX state line<br>HWY 54, Otero County, New Mexico | N/A | 915-842-9911<br>800-762-0241 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Hydrocarbon Impacted Soil | 1 | dump | 20 cyds | cy |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Exempt / Non-Hazardous / Jet Fuel Contaminated 27.77 tons

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Placement in Rhino Cell # D

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| David Scruggs | David Scruggs | 03 | 19 | 03 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | | 3 | 19 | 03 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space
Line 5 Address: 200 Sunset Dr., Suite D, El Paso, TX 79922

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivera | | 3 | 19 | 03 |

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12-BLS-C5 Rev. 12/98

ORIGINAL – RETURN TO GENERATOR

# October 2006 Waste Manifests

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

| NON-HAZARDOUS WASTE MANIFEST | 1 Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-001 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 ) 430-3965

HAFB, Bong Street, West POL Yard

5. Transporter 1 Company Name: Rhino Environmental Services, Inc.
6. US EPA ID Number: NA
A. Transporter's Phone: (915) 886-4355 or (800) 762-0241

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA
B. Transporter's Phone: NA

9. Designated Facility Name and Site Address: Rhino's DP 1051, 1.7 mls N of NM/TX state line, Hwy 54, Otero County, NM
10. US EPA ID Number: NA
C. Facility's Phone: (915) 886-4355 or (800) 762-0241, Fax: (915) 886-4358

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | $yd^3$ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: **Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: GEORGE T. FISH — Signature — Month 10 Day 23 Year 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivera ~~Gustavo Esparza~~ Truck ~~524~~ 525 — Signature — Month 10 Day 23 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose Tejeda — Signature — Month 10 Day 23 Year 06

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Please print or type
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| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-002 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB
Bong Street
West POL Yard

5. Transporter 1 Company Name: Rhino Environmental Services, Inc.
6. US EPA ID Number: NA
A. Transporter's Phone: (915) 886-4355 or (800) 762-0241

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA
B. Transporter's Phone: NA

9. Designated Facility Name and Site Address: Rhino's DP 1051, 1.7 mls N of NM/TX state line, Hwy 54, Otero County, NM
10. US EPA ID Number: NA
C. Facility's Phone: (915) 886-4355 or (800) 762-0241, Fax: (915) 886-4358

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information: **Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George T Fisk | Signature | Month 10 Day 23 Year 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivera ~~Gustavo Paparo a Truck 524~~ | Signature | Month 10 Day 23 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose | Signature | Month 10 Day 23 Year 06

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-003 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB
Bong Street
West POL Yard

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental Services, Inc. | NA | (915) 886-4355 or (800) 762-0241 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| NA | NA | NA |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino's DP 1051<br>1.7 mls N of NM/TX state line<br>Hwy 54, Otero County, NM | NA | (915) 886-4355 or (800) 762-0241<br>Fax: (915) 886-4358 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George T Fish | Signature | Month Day Year: 10 23 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivera ~~Gustavo Esparza - Truck 524~~ RSC | Signature | Month Day Year: 10 23 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose Peña | Signature | Month Day Year: 10 23 06

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Neenah, WI 54957-0368

**ORIGINAL – RETURN TO GENERATOR**

Please print or type
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| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-004 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB
Bong Street
West POL Yard

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental Services, Inc. | NA | (915) 886-4355 or (800) 762-0241 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| NA | NA | NA |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino's DP 1051<br>1.7 mls N of NM/TX state line<br>Hwy 54, Otero County, NM | NA | (915) 886-4355 or (800) 762-0241<br>Fax: (915) 886-4358 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George T Fish | Signature | Month Day Year: 10 23 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Gustavo Esparza – Truck 524 | Signature: Gustavo Esparza | Month Day Year: 10 23 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose Pela | Signature | Month Day Year: 10 23 06

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**ORIGINAL – RETURN TO GENERATOR**

Please print or type
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# NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NM6572124422
Manifest Doc. No.: POL-005
2. Page 1 of 1
R&R Environmental

**GENERATOR**

3. Generator's Name and Mailing Address
HAFB
~~Attn: David Rizzuto~~ 49th CES/CEV
Highway 70
Holloman AFB, NM 88330

HAFB
Bong Street
West POL Yard

4. Generator's Phone ( 505 430-3965

5. Transporter 1 Company Name: Rhino Environmental Services, Inc.
6. US EPA ID Number: NA
A. Transporter's Phone: (915) 886-4355 or (800) 762-0241

7. Transporter 2 Company Name: NA
8. US EPA ID Number: NA
B. Transporter's Phone: NA

9. Designated Facility Name and Site Address
Rhino's DP 1051
1.7 mls N of NM/TX state line
Hwy 54, Otero County, NM
10. US EPA ID Number: NA
C. Facility's Phone
(915) 886-4355 or (800) 762-0241
Fax: (915) 886-4358

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above
Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Printed/Typed Name: George T. Fish
Signature
Month Day Year: 10 24 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Frey Rivera ~~Gustavo Esparza – Truck 524,250~~
Signature
Month Day Year: 10 24 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

**FACILITY**

19. Discrepancy Indication Space
Line 5 address: PO Box 310
Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Jose
Signature
Month Day Year: 10 24 06

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12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**

Please print or type
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| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-006 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB
Bong Street
West POL Yard

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental Services, Inc. | NA | (915) 886-4355 or (800) 762-0241 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| NA | NA | NA |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino's DP 1051<br>1.7 mls N of NM/TX state line<br>Hwy 54, Otero County, NM | NA | (915) 886-4355 or (800) 762-0241<br>Fax: (915) 886-4358 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George T Fish | Signature | Month 10 Day 12 Year 06

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero - Truck 525 | Signature | Month 10 Day 24 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose Gale | Signature | Month 10 Day 24 Year 06

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Neenah, WI 54957-0368

**ORIGINAL – RETURN TO GENERATOR**

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-007 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB
Bong Street
West POL Yard

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental Services, Inc. | NA | (915) 886-4355 or (800) 762-0241 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| NA | NA | NA |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino's DP 1051<br>1.7 mls N of NM/TX state line<br>Hwy 54, Otero County, NM | NA | (915) 886-4355 or (800) 762-0241<br>Fax: (915) 886-4358 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA, Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| George T. Fish | | 10 | 25 | 06 |

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| Jerry Rivero - Truck 525 | | 10 | 25 | 06 |

18. Transporter 2 Acknowledgement of Receipt of Materials

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | | | |

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

| Printed/Typed Name | Signature | Month | Day | Year |
|---|---|---|---|---|
| | | 10 | 25 | 06 |

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Neenah, WI 54957-0368

**ORIGINAL – RETURN TO GENERATOR**

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

| NON-HAZARDOUS WASTE MANIFEST | 1. Generator's US EPA ID No. NM6572124422 | Manifest Doc. No. POL-008 | 2. Page 1 of 1 | R&R Environmental |
|---|---|---|---|---|

**GENERATOR**

3. Generator's Name and Mailing Address: HAFB ~~Attn: David Rizzuto~~ 49th CES/CEV, Highway 70, Holloman AFB, NM 88330

4. Generator's Phone ( 505 430-3965

HAFB, Bong Street, West POL Yard

| 5. Transporter 1 Company Name | 6. US EPA ID Number | A. Transporter's Phone |
|---|---|---|
| Rhino Environmental Services Inc. | NA | (915) 886-4355 or (800) 762-0241 |
| 7. Transporter 2 Company Name | 8. US EPA ID Number | B. Transporter's Phone |
| NA | NA | NA |
| 9. Designated Facility Name and Site Address | 10. US EPA ID Number | C. Facility's Phone |
| Rhino's DP 1051<br>1.7 mls N of NM/TX state line<br>Hwy 54, Otero County, NM | NA | (915) 886-4355 or (800) 762-0241<br>Fax: (915) 886-4358 |

| 11. Waste Shipping Name and Description | 12. Containers No. | Type | 13. Total Quantity | 14. Unit Wt/Vol |
|---|---|---|---|---|
| a. Non-Hazardous Hydrocarbon Impacted Soil | 1 | Dump | 20 | yd³ |
| b. | | | | |
| c. | | | | |
| d. | | | | |

D. Additional Descriptions for Materials Listed Above: Non-RCRA Non-Hazardous Jet Fuel Impacted Soil

E. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information

**Cell E**

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: George T Fish | Signature | Month 10 Day 25 Year 2006

**TRANSPORTER**

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Jerry Rivero - Truck 525 | Signature | Month 10 Day 25 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

**FACILITY**

19. Discrepancy Indication Space

Line 5 address: PO Box 310, Canutillo, TX 79835

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name: Jose Peña | Signature | Month 10 Day 25 Year 06

Printed by J. J. KELLER & ASSOCIATES, INC.
Neenah, WI 54957-0368

12-BLS-C5 Rev. 12/98

**ORIGINAL – RETURN TO GENERATOR**